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RATES OF PLANTATION DURING 2016-17

| SI. | | | | No of | | | | Rate per | ha (Rs.) | | | |
|-----|-------------------------------------|---------|---------------|-------------------|----------------------|---------|----------|--------------------|--------------------|--------------------|--------------------|--------|
| No. | Model | Zone | Spacing | plants per ha. | Advance (15-16) * | Fencing | Creation | Maint. 1st Year | Maint. 2nd Year | Maint. 3rd Year | Maint. 4th Year | TOTAL |
| | | SB | 2.5 m x 2.5 m | 1600 | 14300 | | 32000 | 9500 | 6500 | | | 62300 |
| 1 | Plantation Misc. Spps. | Hills | 2.5 m x 2.5 m | 1600 | 15100 | | 32000 | 16800 | 14700 | 6000 | 3200 | 87800 |
| | | NB | 2 m x 2 m | 2500 | 15100 | | 32000 | 16800 | 14700 | 6000 | 3200 | 87800 |
| 2 | Coastal Shelter- Belt Plantation | SB | 2.5 m x 2.5 m | 1600 | 14300 | 11200 | 35000 | 9000 | 5100 | | | 74600 |
| 1 | Strip Plantation | SB | 2.5 m x 2.5 m | 1600 | 15100 | 11200 | 53000 | 24000 | 17800 | 15771 | | 136871 |
| 3 | | NB | 2.5 m x 2.5 m | 1600 | 15100 | 11200 | 53000 | 24000 | 17800 | 15100 | | 136200 |
| 4 | Mangrove | SBR | 2 m x 1 m | 5000 | 2000 | | 34500 | 4600 | 3300 | | | 44400 |
| 4 | Plantation | WC | 2 m x 1 m | 5000 | 2000 | 11200 | 34500 | 4600 | 3300 | | | 55600 |
| 5 | Sal Plantation | SB | 2.5 m x 2.5 m | 1600 | 23000 | 11200 | 33000 | 19900 | 16100 | 6000 | | 109200 |
| 5 | Sai Pidii(diloii | NB | 2 m x 2 m | 2500 | 8600 | | 35500 | 9100 | 6600 | 4800 | 3200 | 67800 |
| 6 | Bamboo Plantation | SB & NB | 4 m x 4 m | 625 | 7000 | | 22000 | 2400 | 1700 | 1200 | | 34300 |
| 7 | Fodder | SB & NB | | | 13200 | | 53700 | 12400 | 7300 | | | 86600 |
| 8 | DPN | SB & NB | | 1600 | 4200 | | 4200 | | | | | 8400 |

^{*} Advance for 2016-17 to be revised later

| 2 | |
|-----|--------------------------------------|
| 101 | SOUTH BENGAL HYBRID CLONES PLTN JICA |
| | |

| 1 | Spacing Prescribed as per Working | 2.5m X 2.5m |
|---|--------------------------------------|--|
| 2 | Pit Size /Planting Model | (0.60+0.45)/2x0.45x0.45 m ³ |
| 3 | Species | Khijure/Akashmoni/Babla etc. |
| 4 | No of seedlings to be planted per Ha | 1600 |
| 5 | Planting Pattern | Survey and demarcation of the plantation area including GPS Survey by Technical Person. |
| | | 2. Alignment of Planting Lines. |
| | | 3. Advance soil works by digging planting pits of size $(0.60+0.45)/2x0.45x0.45 \text{m}^3$ at 2.5m x 2.5m spacing. |
| | | 4. Cleaning the plantation site. |
| | | 5. Filling up of planting pits with dug up pulverized soil. |
| | | 6. Transplanting of potted seedlings in pits, including carriage of Root Trainers to Planting site and collection and recarriage of Root. |
| | | 7. Carriage of seedlings from Central Nursery to Planting site including loading and unloading and return of stand and root trainers to central nursery. |
| | | 8. Vacancy infilling. |
| | | 9. 1 st mulching, weeding, cleaning and application of fertilizer. |
| | | 10. 2 nd mulching, weeding, cleaning and application of fertilizer. |
| | | 11. Cutting fire lines 3.0m wide. |
| | | 12. Watch and ward (1 md per 10 ha) for 6 month. Planting pattern method: as per working plan (Staggered/Parallel) |

| Category | SI No | Item | Quantity | Unit | Туре | Output per Mandays | Required Mandays | Rate | Amount (Rs) |
|----------|-------|--|----------|------|----------|--------------------------|---------------------|--------|-------------|
| Advanced | 1 | Survey and demarcation of the plantation area including GPS Survey by Technical person | 1 | ha | Labour | 1 | 1 | 224.58 | 224.58 |
| Advanced | 2 | Alignment of planting lines and ataking the pit positions | 1600 | nos | Labour | 1600 | 1 | 224.58 | 224.58 |
| Advanced | 3 | Advance Soil works by digging planting pits of size (0.60+0.45)/2 x0.45x0.45 m3 at 2.5 x2.5 m spacing (1600 nos) | 1600 | nos | Labour | 35 | 46 | 224.58 | 10330.68 |
| Advanced | 4 | Cleaning of the pltn site and making inspection pah | 1 | ha | Labour | 0.17 | 6 | 224.58 | 1347.48 |
| Creation | 5 | Filling up of planting pits with dug up pulverized soil | 1600 | nos | Labour | 100 | 16 | 224.58 | 3593.28 |
| Creation | 6 | Transplanting of potted seedlings in pits, including carriage of Root Trainers to Planting site and collection and recarriage of Root Trainers to local store site | 1600 | nos | Labour | 80 | 20 | 224.58 | 4491.60 |
| Creation | 7 | Carriage of seedlings from Central Nursery to Planting site including loading and unloading and return of Stand and Root Trainers to Central Nursry | 1600 | nos | Material | | | L.S | 1200.00 |
| Creation | 8 | Vacancy infilling | 110 | nos | Labour | 55 | 2 | 224.58 | 449.16 |

| | 9 | 1 st Mulching, weeding cleaning and application of | 1600 | rmt | Labour | 100 | 16 | 224.58 | 3593.28 |
|----------|----|---|------|-----|----------|-----|----|--------|----------|
| Creation | | fertilizer | | | | | | | |
| Creation | 10 | 2nd mulching .weeding ,cleaning and application of fertilizer | 1600 | | Labour | 133 | 12 | 224.58 | 2694.96 |
| Creation | 11 | Cutting firelines 3.0 m wide | 250 | | Labour | 125 | 2 | 224.58 | 449.16 |
| Creation | 12 | Carriage of fertilizer, insecticides etc | LS | | Material | | | L.S | 250.00 |
| Creation | 13 | Cost of fertilizer, insecticides etc. | LS | | Material | | | L.S | 2000.00 |
| Creation | 14 | Watch & Ward (1 md per 10 ha)for 6 month | LS | | Material | | 18 | 224.58 | 4042.44 |
| Creation | 15 | Sowing Khijure / Akshmoni/ Akashmoni / Babla on boundary including supply and carriage of all materials | LS | | Material | | 1 | 224.58 | 224.58 |
| Advanced | 16 | Contingencies- Labour | LS | | Material | | | L.S | 136.00 |
| Advanced | 17 | Contingencies- Material | LS | | Material | | | L.S | 200.00 |
| Creation | 18 | Contingencies- Labour | LS | | Material | | | L.S | 108.00 |
| Creation | 19 | Contingencies- Material | LS | | Material | | | L.S | 150.00 |
| | | Total | | | | | | | 35710.00 |

Estimate for High Yielding Eucalyptus Hybrid Clones Plantation : A1 Model Estimate of A1 1st year Maintenance

| Category | SI No | Item | Quantity | Unit | Туре | Output per mandays | Required Mandays | Rate | Amount (Rs) |
|----------|-------|---|----------|------|----------|--------------------------|---------------------|--------|-------------|
| Maint Y1 | 1 | Vacancy infilling | 80 | | Labour | 80 | 1 | 224.58 | 224.58 |
| Maint Y1 | 2 | 1st weeding, cleaning mulching with application of fertilizer | 1600 | nos | Labour | 100 | 16 | 224.58 | 3593.28 |
| Maint Y1 | 3 | 2nd weeding, cleaning | 1600 | nos | Labour | 133 | 12 | 224.58 | 2694.96 |
| Maint Y1 | 4 | Cutting of firelines 3.0 m wide | 500 | rmt | Labour | 250 | 2 | 224.58 | 449.16 |
| Maint Y1 | 5 | Cost of fertilizer and insecticide etc. including carriage | LS | | Material | | | ប | 250.00 |
| Maint Y1 | 6 | Contingency | | | | | | | 54.00 |
| | | Total | | | | | | | 7266.00 |

Estimate for High Yielding Eucalyptus Hybrid Clones Plantation : A1 Model Estimate of A1 2nd year Maintenance

| Category | SI No | Item | Quantity | Unit | Туре | Output per mandays | Required Mandays | Rate | Amount (Rs) |
|----------|-------|---|----------|------|--------|--------------------------|---------------------|--------|-------------|
| Maint Y2 | 1 | Vacancy infilling | 80 | nos | Labour | 80 | 1 | 224.58 | 224.58 |
| Maint Y2 | 2 | 1st weeding, cleaning mulching with application of fertilizer | 1600 | nos | Labour | 100 | 16 | 224.58 | 3593.28 |
| Maint Y2 | 3 | Cutting of firelines 3.0 m wide | 1000 | rmt | Labour | 250 | 4 | 224.58 | 898.32 |
| | 5 | Contingency | | | | | | | 64 |
| | | Total | | | | | | | 4780.00 |

SOUTH BENGAL TFF PLTN 70% JICA Advance cum Creation

| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate (Rs.) | Amount (Rs.) |
|----------|------------|--|----------|------|----------|-------------------------|---------------------|---------------|-----------------|
| Advance | 1 | Survey and demarcation of the plantation area including GPS Survey by Technical person | 1.00 | ha | Labour | 1.00 | 1.00 | 224.58 | 224.58 |
| Advance | 2 | Alignment of planting lines and staking the pit position | 1600.00 | nos | Labour | 1600.00 | 1.00 | 224.58 | 224.58 |
| Advance | 3 | Advance Soil works by digging planting pits of size (0.60+0.45)/2x0.45x0.45cum at 2.5x2.5 m spacing (1600 nos.) | 1600.00 | nos | Labour | 35.00 | 46.00 | 224.58 | 10330.68 |
| Advance | 4 | Cleaning of the pltn site and making inspection path | 1.00 | ha | Labour | 0.17 | 6.00 | 224.58 | 1347.48 |
| Creation | 5 | Filling up of planting pits with dug up pulverized soil | 1600.00 | ha | Labour | 100.00 | 16.00 | 224.58 | 3593.28 |
| Creation | | Transplanting of potted seedlings in pits, including carriage of Root Trainers to planting site and collection and recarriage of Root Trainers to local store site | 1600.00 | nos | Labour | 80.00 | 20.00 | 224.58 | 4491.60 |
| Creation | 7 | Carriage of seedlings from Central Nursery to Planting site including loading and unloading and return of Stand and Root Trainers to Central Nursery | 1600.00 | nos | Material | | | LS | 1200.00 |
| Creation | 8 | Vacancy infilling | 110.00 | nos | Labour | 55.00 | 2.00 | 224.58 | 449.16 |
| Creation | 9 | 1st mulching, weeding, cleaning and application of fertilizer | 1600.00 | nos | Labour | 100.00 | 16.00 | 224.58 | 3593.28 |
| Creation | 10 | 2nd mulching, weeding, cleaning and application of fertilizer | 1600.00 | nos | Labour | 133.00 | 12.00 | 224.58 | 2694.96 |
| Creation | 11 | Cutting firelines 3.0 m wide | 250.00 | rmt | Labour | 125.00 | 2.00 | 224.58 | 449.16 |
| Creation | 12 | Carriage of fertilizer, insecticide etc. | LS | | Material | | | LS | 250.00 |
| Creation | 13 | Cost of fertilizer, insecticides etc. | LS | | Material | | | LS | 2000.00 |
| Creation | 14 | Watch & Ward (1 md per 10 ha) for 6 months | LS | | Labour | | 18.00 | 224.58 | 4042.44 |
| Creation | | Sowing Khijure/Akashmoni/Babla on boundary including supply and carriage of all materials | LS | | Labour | | 1.00 | 224.58 | 224.58 |
| Advance | 16 | Contingencies - Labour | LS | | Labour | | | LS | 136.00 |
| Advance | _ | Contingencies -Material | LS | | Material | | | LS | 200.00 |
| Creation | _ | Contingencies - Labour | LS | | Labour | | | LS | 108.00 |
| Creation | 19 | Contingencies - Material | LS | | Material | | | LS | 150.00 |
| _ | | | | | | Total | 129.50 | | 35710.00 |

SOUTH BENGAL TFF PLTN 70% JICA

Estimate for Quick Growing Small Timber, Fuel & Fodder Plantation : A-3 Model

1st Year Maintenance

| | | | Hills | | | | | | |
|-------------|------------|--|----------|------|----------|-------------------------|---------------------|---------------|-----------------|
| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate (Rs.) | Amount (Rs.) |
| Maint. Y1 | 1 | Vacancy infilling | 80.00 | nos | Labour | 80.00 | 1.00 | 224.58 | 224.58 |
| Maint. Y1 | | 1st weeding, cleaning, mulching with application of fertilizer | 1600.00 | nos | Labour | 100.00 | 16.00 | 224.58 | 3593.28 |
| Maint. Y1 | 3 | 2nd weeding, cleaning | 1600.00 | nos | Labour | 133.00 | 12.00 | 224.58 | 2694.96 |
| Maint. Y1 | 4 | Cutting of firelines 3.0 m wide | 500.00 | rmt. | Labour | 250.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y1 | 5 | Cost of fertilizer and insecticide etc. including carriage & application | LS | | Material | | | LS | 250.00 |
| Maint. Y1 | 6 | Contingency - Material | | | | | | | 54.00 |
| Total 31.00 | | | | | | | | | 7266.00 |

Quick Growing Small Timber, Fuel & Fodder Plantation

2nd Year Maintenance

| | Hills | | | | | | | | | | | |
|-----------|------------|---------------------------------|----------|------|--------|-------------------------|---------------------|---------------|-----------------|--|--|--|
| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate (Rs.) | Amount (Rs.) | | | |
| Maint. Y2 | 1 | Vacancy infilling | 80.00 | nos | Labour | 80.00 | 1.00 | 224.58 | 224.58 | | | |
| Maint. Y2 | 2 | 1st weeding, cleaning, mulching | 1600.00 | nos | Labour | 100.00 | 16.00 | 224.58 | 3593.28 | | | |
| Maint. Y2 | 3 | Cutting of firelines 3.0 m wide | 1000.00 | rmt. | Labour | 250.00 | 4.00 | 224.58 | 898.32 | | | |
| Maint. Y2 | 4 | Contingency | | | | | | | 64.00 | | | |
| | | | | | | Total | 21.00 | | 4780.00 | | | |

Quick Growing Small Timber, Fuel & Fodder Plantation

3rd Year Maintenance

| | Hills | | | | | | | | | | | |
|-----------|------------|---------------------------------|----------|------|--------|-------------------------|---------------------|---------------|-----------------|--|--|--|
| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate (Rs.) | Amount (Rs.) | | | |
| Maint. Y3 | 1 | Cutting of firelines 3.0 m wide | 1250.00 | rmt. | Labour | 250.00 | 5.00 | 224.58 | 1122.90 | | | |
| Maint. Y3 | 2 | Contingency | | | | | | | 20.00 | | | |
| | | | | | | Total | 5.00 | | 1143.00 | | | |

SOUTH BENGAL TFF PLTN 30% JICA

| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
|----------------------|---------|--|---------------|------|------------------|-------------------------|---------------------|------------------|--------------------|
| | | Survey and demarcation of the plantation | | | | , | | | |
| Advance | | area including GPS Survey by Technical | | | | | | | |
| | 1 | person | 1.00 | ha | Labour | 1.00 | 1.00 | 224.58 | 224.58 |
| Advance | | Alignment of planting lines and staking the | | | | | | | |
| ravarios | 2 | pit positions | 1600.00 | nos | Labour | 1600.00 | 1.00 | 224.58 | 224.58 |
| | | Advance Soil works by digging planting pits of | | | | | | | |
| Advance | _ | size (0.60+0.45)/2 x 0.45 x0.45 m3 at 2.5.x | | | | | | | |
| | 3 | 2.5 m spacing (1600 nos) | 1600.00 | nos | Labour | 35.00 | 46.00 | 224.58 | 10330.68 |
| Advance | | Cleaning of the pltn site and making | 4.00 | | | 0.47 | 5.00 | 224 50 | 4247.40 |
| | 4 | inspection path | 1.00 | ha | Labour | 0.17 | 6.00 | 224.58 | 1347.48 |
| Creation | _ | Filling up of planting pits with dug up | 4.600.00 | | | 400.00 | 46.00 | 224 50 | 2502.20 |
| | 5 | pulverized soil | 1600.00 | nos | Labour | 100.00 | 16.00 | 224.58 | 3593.28 |
| Creation | 6 | Transplanting of potted seedlings in pits, including carriage of Root Trainers to planting site and collection and recarriage of Root Trainers to local store site | 1600.00 | nos | Labour | 80.00 | 20.00 | 224.58 | 4491.60 |
| | 1 | | | | | | | | |
| Creation | | Carriage of Seedlings from Central Nursery to Planting site including loading and unloading and return of Stand and Root Trainers to Central Nursery | | | | | | | |
| | 7 | , | 1600.00 | | Material | | | LS | 1600.00 |
| Creation | 8 | Vacancy infilling | 165.00 | nos | Labour | 55.00 | 3.00 | 224.58 | 673.74 |
| Creation | 9 | 1st mulching, weeding, cleaning and application of fertilizer | 1600.00 | nos | Labour | 100.00 | 16.00 | 224.58 | 3593.28 |
| Creation | | 2nd mulching, weeding, cleaning and | | | | | | | |
| | | application of fertilizer | 1600.00 | | Labour | 115.00 | 14.00 | 224.58 | 3144.12 |
| Creation | _ | 3rd cleaning, weeding | 1600.00 | | Labour | 160.00 | 10.00 | 224.58 | 2245.80 |
| Creation | 12 | Cutting firelines 3.0 m wide | 500.00 | rmt | Labour | 125.00 | 4.00 | 224.58 | 898.32 |
| Creation | 13 | Erection of live hedge (ipomea, vitex, thorny spps.) fencing with bamboo/bamboo posts including local carriage of all material | 400.00 | rmt | Labour | 100.00 | 4.00 | 224.58 | 898.32 |
| Creation | | Material for live fencing including carriage | | | | | | | |
| Creation | 14 | upto site | LS | | Material | | | LS | 2000.00 |
| Creation | 45 | Watering the seedlings in the field during dry spell with 15 days interval, for 2 months i.e. | 4600.00 | | | 400.00 | 46.00 | 224.50 | 2502.20 |
| Croation | _ | for about 4 times Digging dug well - Labour | 1600.00 LS | 1105 | Labour Labour | 400.00 | 16.00 20.00 | 224.58 224.58 | 3593.28 4491.60 |
| Creation Creation | | Digging dug well - Labour Digging dug well - Material | LS | | Material | | 20.00 | 224.58 LS | 680.00 |
| Creation | | Carriage of fertiliser, insecticide etc. | | | Material | | | LS | 250.00 |
| Creation | _ | Cost of fertilizer, insecticides etc. | | | Material | | | LS | 2000.00 |
| Creation | 20 | Watch & Ward (1 md per 10 ha) for 6 months | | | Labour | | 18.00 | 224.58 | 4042.44 |
| Creation | | Sowing Khijure/ Akashmoni/ Babla on boundary including supply and carriage of all materials | LS | | Labour | | 1.00 | | 224.58 |
| Advance | _ | Contingencies - Labour | LS | | Labour | | | LS | 136.00 |
| Advance | _ | Contingencies - Material | LS | | Material | | | LS | 200.00 |
| Creation | 24 | · · | LS | | Labour | | | LS | 128.00 |
| Creation | | Contingencies - Material | LS | | Material | | | LS | 170.00 |
| | | Total | | | | | | | 51182.00 |

| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
|-----------|------------|--|----------|------|----------|-------------------------|---------------------|--------|--------------|
| Maint. Y1 | 1 | Vacancy infilling | 160.00 | nos | Labour | 80.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y1 | 2 | 1st weeding, cleaning, mulching, with application of fertilizer | 1600.00 | nos | Labour | 100.00 | 16.00 | 224.58 | 3593.28 |
| Maint. Y1 | 3 | 2nd weeding, cleaning, mulching | 1600.00 | nos | Labour | 133.00 | 12.00 | 224.58 | 2694.96 |
| Maint. Y1 | 4 | Cutting of firelines 3.0 m wide | 500.00 | rmt | Labour | 250.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y1 | 5 | Repair of live hedge (ipomea, vitex, thorny spps.) fencing with bamboo/bamboo posts including local carriage of all material | 400.00 | rmt | Labour | 200.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y1 | 6 | Material for repair of live fencing including carriage upto site | LS | | Material | | | LS | 100.00 |
| Maint. Y1 | 7 | Watch & Ward for 12 months | 1.00 | На | Labour | | 25.00 | 224.58 | 5614.50 |
| Maint. Y1 | 8 | Cost of fertilizer and insecticide etc. including carriage | LS | | Material | | | LS | 600.00 |
| Maint. Y1 | 9 | Contingency | | | | | | | 56.00 |
| | | Total | | | | | | | 14006.00 |

Estimate for Quick Growing Small Timber, Fuel and Fodder Plantation: A3 Model: 30% - Maint. Year 2

| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
|-----------|------------|--|----------|------|----------|-------------------------|---------------------|--------|--------------|
| Maint. Y2 | 1 | Vacancy infilling | 80.00 | nos | Labour | 80.00 | 1.00 | 224.58 | 224.58 |
| Maint. Y2 | 2 | 1st weeding, cleaning, mulching | 1600.00 | nos | Labour | 115.00 | 14.00 | 224.58 | 3144.12 |
| Maint. Y2 | 3 | 2nd weeding, cleaning, mulching | 1600.00 | nos | Labour | 160.00 | 10.00 | 224.58 | 2245.80 |
| Maint. Y2 | 4 | Cutting of firelines 3.0 m wide | 500.00 | rmt | Labour | 250.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y2 | | Repair of live hedge (ipomea, vitex, thorny spps.) fencing with bamboo/bamboo posts including local carriage of all material | 400.00 | rmt | Labour | 200.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y2 | 6 | Material for live fencing including carriage upto site | LS | | Material | | | LS | 100.00 |
| Maint. Y2 | 7 | Watch & Ward for 10 months | 1.00 | На | Labour | | 25.00 | 224.58 | 5614.50 |
| Maint. Y2 | 8 | Contingency | | | | | | | 36.00 |
| | | Total | | | | | | | 12263.00 |

Estimate for Quick Growing Small Timber, Fuel and Fodder Plantation: A3 Model: 30% - Maint. Year 3

| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
|-----------|------------|---------------------------------|----------|------|--------|-------------------------|---------------------|--------|--------------|
| Maint. Y3 | 1 | Vacancy infilling | 80 | nos | Labour | 80 | 1 | 224.58 | 224.58 |
| Maint. Y3 | 2 | 1st weeding, cleaning, mulching | 1600 | nos | Labour | 160 | 10 | 224.58 | 2245.80 |
| Maint. Y3 | 3 | Cutting of firelines 3.0 m wide | 1000 | rmt | Labour | 250 | 4 | 224.58 | 898.32 |
| Maint. Y3 | 4 | Contingency | | | | | | | 60 |
| | | Total | | | | | | | 3429.00 |

SOUTH BENGAL SAL & ASSOCIATES JICA

| 1 | Spacing Prescribed as per Working Plan | Spacing for 0 yr-2.5m X 2.5m |
|---|--|---|
| | | Spacing for 1 st yr-Nil |
| | | Spacing for 2nd Yr Nil |
| | | Spacing for 3 rd yr-Nil |
| | | Spacing for 5 th yr-2.5m X 2.5m |
| | | Spacing for 15 th yr-uniform |
| | | Spacing for 30 th yr-uniform |
| | | Spacing for 40 th yr-uniform |
| 2 | Pit Size /Planting Model | (0.60+0.45)/2x0.45x0.45m ^{3 pit} |
| 3 | Species | Usual associates are Terminalia belerica, Anogeisus latifolia, Lagergtroem- |
| | | Other species are shrubs,herbs,climbe-rs etc. |
| 4 | No of seedlings to be planted per Ha | Creation 0 year-1600 |
| | | Creation 1st year-Nil |
| | | Creation 2nd year- Nil |
| | | Creation 3rd year- Nil |
| | | Creation 5th year- 800 |
| | | Creation 15th year- 600 |
| | | Creation 30th year- 400 |
| | | Creation 40th year- 250 |
| 5 | Planting Pattern | 0 year-Weeding and cleaning three times. |
| | | 1 st year-Weeding and cleaning two times per year.Infilling to be done with one year old seedling.Mulching if required shall be done as per filed moisture condition. Infilling one time by miscellaneous species (not Teak) with one year good seedling to be done. |
| | | 2 nd year-Weeding and cleaning one time per year, mulching one time per year.Beating of casualties with same species shall be done one time with one to two years old seedling. |
| | | 3 rd year-Weeding and cleaning one time per year. |
| | | 5 th year-B grade mechanical thinning(Remo-val of alternate diagonosis),Climber cutting may be done. |
| | | 15 th year-B grade silvicultural low grade thinning by way of removing the suppressed and defective trees from lower crown class. |
| | | 30 th year-C grade silvicultural crown thinning. |
| | | 40 th year-B grade silvicultural crown thinning. |
| | | Planting pattern method:as per working plan(staggered/parallel). |

| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate (Rs.) | Amount (Rs.) |
|----------|------------|--|----------|------|----------|-------------------------|---------------------|------------|-----------------|
| Advance | 1 | Survey and demarcation of the plantation area including GPS Survey by Technical person | 1.00 | ha | Labour | 1.00 | 1.00 | 224.58 | 224.58 |
| Advance | 2 | Alignment of planting lines and staking the pit positions | 1600.00 | nos | Labour | 1600.00 | 1.00 | 224.58 | 224.58 |
| Advance | 3 | Advance Soil works by digging planting pits of size (0.60+0.45)/2x0.45x0.45m3 at 2.5x2.5 m spacing (1600 nos.) | 1600.00 | nos | Labour | 40.00 | 40.00 | 224.58 | 8983.20 |
| Advance | 4 | Cleaning of the pltn site and making inspection path | 1.00 | ha | Labour | 0.13 | 8.00 | 224.58 | 1796.64 |
| Creation | 5 | Filling up of planting pits with dug up pulverized soil | 1600.00 | ha | Labour | 100.00 | 16.00 | 224.58 | 3593.28 |
| Creation | 6 | Transplanting of potted seedlings in pits, including carriage of Root Trainers to planting site and collection and recarriage of Root Trainers to local store site | 1600.00 | nos | Labour | 80.00 | 20.00 | 224.58 | 4491.60 |
| Creation | 7 | Carriage of seedlings from Central Nursery to Planting site including loading and unloading and return of Stand and Root Trainers to Central Nursery | 1600.00 | nos | Material | | | LS | 1600.00 |
| Creation | 8 | Vacancy infilling | 165.00 | nos | Labour | 55.00 | 3.00 | 224.58 | 673.74 |
| Creation | 9 | Sowing Arhar seeds for raising nurse crop | 500.00 | rmt | Labour | 250.00 | 2.00 | 224.58 | 449.16 |
| Creation | 10 | Supply of Arhar seeds | 5.00 | kg. | Material | | | LS | 500.00 |
| Creation | 11 | 1st mulching, weeding, cleaning and application of fertilizer | 1600.00 | nos | Labour | 80.00 | 20.00 | 224.58 | 4491.60 |
| Creation | 12 | 2nd mulching, weeding, cleaning and application of fertilizer | 1600.00 | nos | Labour | 100.00 | 14.00 | 224.58 | 3144.12 |
| Creation | 13 | 3rd mulching, cleaning, weeding | 1600.00 | nos | Labour | 115.00 | 16.00 | 224.58 | 3593.28 |
| Creation | 14 | Cutting firelines 3.0 m wide | 500.00 | rmt | Labour | 125.00 | 4.00 | 224.58 | 898.32 |
| Creation | 15 | Erection of life hedge (ipomea, vitex, thorny spps.) fencing with bamboo/bamboo posts including local carriage of all material | 400.00 | rmt | Labour | 100.00 | 4.00 | 224.58 | 898.32 |
| Creation | 16 | Material for live fencing including carriage up-to site | LS | | Labour | | | LS | 2000.00 |
| Creation | 17 | Watering the seedlings in the field during dry spell with 15 days interval, for 3 months i.e. for about 6 days | 1600.00 | nos | Labour | 400.00 | 24.00 | 224.58 | 5389.92 |
| Creation | 18 | Digging dug well/shallow tube well - labour | LS | | Labour | | 30.00 | 224.58 | 6737.40 |
| Creation | | Digging dug well/shallow tube well - Material | | - | Material | | | LS | 3520.00 |
| Creation | 20 | Carriage of manure, including cowdung manure, insecticide etc. | LS | | Material | | | | 500.00 |
| Creation | 21 | Cost of manure including cowdung manure, fertilizer and insecticides etc. | LS | | Material | | | LS | 4000.00 |
| Creation | | Watch & Ward (1 md per 10 ha) for 6 months | LS | | Material | | 18.00 | 224.58 | 4042.44 |
| Creation | 23 | Planting/sowing Bamboo/Khijure/Akashmoni/Babla on boundary including supply and carriage of all materials | LS | | Labour | | 4.00 | 224.58 | 898.32 |
| Advance | 24 | Contingencies - Labour | LS | | Labour | | | LS | 100.00 |
| Advance | 25 | Contingencies - Material | LS | | Material | | | LS | 100.00 |
| Creation | 26 | Contingencies - Labour | LS | | Labour | | | LS | 30.00 |
| Creation | 27 | Contingencies - Material | LS | | Material | | | LS | 50.00 |
| | | | | | | Total | 225.00 | | 62930.00 |

SOUTH BENGAL SAL & ASSOCIATES JICA

Estimate for Plantation of Sal and Associates

1st Year Maintenance

| | | | Hills | | | | | | |
|-----------|------------|--|----------|------|----------|-------------------------|---------------------|---------------|-----------------|
| Category | SI. No. | Item | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate (Rs.) | Amount (Rs.) |
| Maint. Y1 | 1 | Vacancy infilling | 160.00 | nos | Labour | 80.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y1 | 2 | 1st weeding, cleaning, mulching with application of fertilizer | 1600.00 | nos | Labour | 90.00 | 18.00 | 224.58 | 4042.44 |
| Maint. Y1 | 3 | 2nd weeding, cleaning, mulching | 1600.00 | nos | Labour | 115.00 | 14.00 | 224.58 | 3144.12 |
| Maint. Y1 | 4 | Cutting of firelines 3.0 m wide | 500.00 | rmt. | Labour | 250.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y1 | 5 | Repair of live hedge (ipomea, vitex, thorny spps.) fencing with bamboo/bamboo posts including local carriage of all material | 400.00 | rmt. | Labour | 200.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y1 | 6 | Material for live fencing including carriage upto site | LS | | Material | | | LS | 100.00 |
| Maint. Y1 | 7 | Watering the seedlings in the field during dry spell with 30 days interval, for 3 months i.e. for about 3 times | 1600.00 | nos | Labour | 400.00 | 12.00 | 224.58 | 2694.96 |
| Maint. Y1 | 8 | Watch & Ward for 12 monthgs | 1.00 | ha | Labour | | 25.00 | 224.58 | 5614.50 |
| Maint. Y1 | 9 | Cost of fertilizer and insecticide including carriage | LS | | Material | | | LS | 1000.00 |
| Maint. Y1 | 10 | Contingency | | | | | | | 100.00 |
| | | | | | | Total | | | 18043.00 |

2nd Year Maintenance

| | | | Hills | | | | | | |
|-----------|------------|--------------------------------------|----------|------|--------|-------------------------|---------------------|---------------|-----------------|
| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate (Rs.) | Amount (Rs.) |
| Maint. Y2 | 1 | Vacancy infilling | 80.00 | nos | Labour | 80.00 | 1.00 | 224.58 | 224.58 |
| Maint. Y2 | 2 | 1st weeding, cleaning, mulching etc. | 1600.00 | nos | Labour | 115.00 | 14.00 | 224.58 | 3144.12 |
| Maint. Y2 | 3 | 2nd weeding, cleaning | 1600.00 | nos | Labour | 133.00 | 12.00 | 224.58 | 2694.96 |
| Maint. Y2 | 4 | 3rd weeding, cleaning | 1600.00 | nos | Labour | 160.00 | 10.00 | 224.58 | 2245.80 |
| Maint. Y2 | 4 | Cutting of firelines 3.0 m wide | 500.00 | rmt. | Labour | 250.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y2 | 5 | Watch & Ward for 12 monthgs | 1.00 | ha | Labour | | 25.00 | 224.58 | 5614.50 |
| Maint. Y2 | 7 | Contingency | | | | | | | 176.00 |
| | Total | | | | | | | | 14549.00 |

3rd Year Maintenance

| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate (Rs.) | Amount (Rs.) |
|-----------|------------|---------------------------------|----------|------|--------|-------------------------|---------------------|------------------|-----------------|
| Maint. Y3 | 1 | 1st weeding, cleaning | 1600.00 | nos | Labour | 115.00 | 14.00 | 224.58 | 3144.12 |
| Maint. Y3 | 2 | 2nd weeding, cleaning | 1600.00 | nos | Labour | 160.00 | 10.00 | 224.58 | 2245.80 |
| Maint. Y3 | 3 | Cutting of firelines 3.0 m wide | 750.00 | rmt. | Labour | 250.00 | 3.00 | 224.58 | 673.74 |
| Maint. Y3 | 4 | Contingency | | | | | | · | 68.00 |
| Total | | | | | | | | , and the second | 6132.00 |

11

Estimate for Raising Sal Plantation in South Bengal (Unit 1.0 ha area)

Nature of Work :- Raising Sal Pltn. Creation Work .

| SI. | Particulars of Work | No.of MD | Mat.in unit | Rate in Rs. | Amount in Rs. |
|-----|--|----------|----------------|----------------|---------------|
| Α | Creation Works. | l l | unit | 113. | |
| 1 | Weeding, cleaning, pricking out and application of oil cake / insecticides / growth promoting hurmone etc. | 6 | | 224.58 | 1347.48 |
| 2 | Sorting, shifting of nursery seedlings, grading and arranging according to height growth. | 4 | | 224.58 | 898.32 |
| 3 | Watering of nursery seedling from April to June. | 6 | | 224.58 | 1347.48 |
| В | Creation : Soil & plant. Work . | , , | | | |
| 1 | Cutting planting pits of size ($0.60 + 0.45$ / $2 \times 0.45 \times 0.45$) mt.over 640 nos./ ha. | 14 | | 224.58 | 3144.12 |
| 2 | Filling up planting pits with dug up earth & neem oil cake, cowdung / FY ${\sf M}$ | 12 | | 224.58 | 2694.96 |
| 3 | Transplanting of potted seedlings including carriage by manual labour | 14 | | 224.58 | 3144.12 |
| 4 | Vacancy filling with potted seedling including application of insecticides | 2 | | 224.58 | 449.16 |
| 5 | 1st time weeding cleaning & mulching with application of fertilizer | 14 | | 224.58 | 3144.12 |
| 6 | 2nd time weeding cleaning & mulching without application of fertilizer | 10 | | 224.58 | 2245.80 |
| 7 | Sowing of Arahar seeds as nurse crop on the ridges of dug up soil along the continous trenches. | 1 | | 224.58 | 224.58 |
| 8 | Collection of fencing post : 100 Nos. | | 100 | 5 | 500.00 |
| 9 | Fixing post including digging hole : 100 Nos. | | 100 | 3 | 300.00 |
| 10 | Cost of barbed wire 2 ply : 40 kg | | 40 | 70 | 2800.00 |
| 11 | Straining of barbed wire 3 to 4 strain | 5 | | 224.58 | 1122.90 |
| 12 | Carriage of seedlings from central nursary to plantation site | LS | | | 1500.00 |
| 13 | Making fire lines 1.50 mt. wide all along the periphery and 1.20 mt. with inside pltn. | 8 | | 224.58 | 1796.64 |
| 14 | Watering to planted seedlings during dry spell for establishment | 12 | | 224.58 | 2694.96 |
| 15 | Contingencies including the cost of Arahor seeds, coir rope etc. | LS | | | 294.44 |
| 16 | supply of neemcake, organic fertilizer , insecticide and hormone | LS | | | 3352.00 |
| | TOTAL (1.0 ha) | 108 | • | | 33001.00 |

| 1 Spacing Prescribe | d as per Working | 2.5m X 2.5m. | | | | | | |
|----------------------------|------------------------------|---|--|--|--|--|--|--|
| 2 Pit Size /Planting | Model | 60c.m.x45c.m.x45c.m Pit. | | | | | | |
| 3 Species | A. Eucalyptus | 60-70% Eucalyptus and Eucalyptus clone etc. Balance to be planted by Misc. sp. like Sissoo, Siris, Gamar, Haldu, Mahul etc., with NTFP species like Neem, Haritaki, Bahera, Amloki, Karanj etc. Local Spp as suggested by FPC Members. | | | | | | |
| | Plantations | Along the boundary line Tal, Khejur to be planted and Babla seeds to be sown. | | | | | | |
| | | 5. After 3rd Coppice rotation the Eucalyptus areas shall be planted afresh, preferably with NTFP spand if not possible with Akashmoni | | | | | | |
| | | 60-70% Akashmoni / Minjiri etc. Balance to be planted by misc. timber sp. such as Sissoo, Siris, Gamar, Haldu, Mahuletc and with | | | | | | |
| | B. Akashmoni | NTFP sp. like Neem, Haritaki, Bahera, Amloki, Karanj etc. | | | | | | |
| | Plantations | Local Spp as suggested by FPC Members. | | | | | | |
| A No of a collins | ha alaat daa | 4. Along the boundary line Tal, Khejur to be planted and Babla seeds to be sown. | | | | | | |
| 4 No of seedlings to Ha | be planted per | 1600 | | | | | | |
| 5 Planting Pattern | | 1. Planting pattern should be such that NTFP spp planted get maximum protection from grazing e and hence pattern should be decided on local factors. The territorial DFO in Consultation with CF/CCF shall decide the planting pattern. | | | | | | |
| | A. Eucalyptus Plantations | 2. Eucalyptus and Akashmoni Plantations shall be taken up only in Lateritic areas with poor soil quality. If the soil quality is stony and lateritic and not fit for miscellaneous species then the miscellaneous species may be shifted to some other place with good soil quality that is fit for regeneration. | | | | | | |
| | | 3. Minimum 10% of QGS plantation should be planted with NTFP species like Am, Bel, Jam etc. as per the Working plan prescriptions. 4. If condition is not congenial then pure patch can be raised with 10% misc species. | | | | | | |
| | | Cleaning the nursery area including cutting jungles. | | | | | | |
| | | 2.Making mother bed of size 1.8x0.30x1.3x0.49 | | | | | | |
| | | 3.Making Tube bed of size 4mt.X1.2mX0.15m | | | | | | |
| | | 4. Supply of polytube 1.5 kg. | | | | | | |
| | | 5. Supply of cowdung manure. | | | | | | |
| | | 6.Supply of Good Earth. | | | | | | |
| | | 7.Felling up of poly plot. Including mixing cowdung and placing in proper position in bed . | | | | | | |
| | B. Akashmoni | 8. Making shed including supply of straw bamboo. | | | | | | |
| | Plantations | 9.supply straw for covering the bed. | | | | | | |
| | | 10.Making nursery fencing all around the nursery. | | | | | | |
| | | 11.Supply of fencing material. | | | | | | |
| | | 12.MakingNursey hut with thatch roofing and mud wall. | | | | | | |
| | | 13. Supply nursery hut materials. | | | | | | |
| | | 14.Supply of nursery materials emptytin,watercan,rope etc. | | | | | | |
| | | 15.Dibbling seeds into the polypot and supplying of tube to mother bed. | | | | | | |
| | | 16.Watering, weeding, cleaning including application of insecticide. | | | | | | |
| | | Planting pattern method:as per working plan(staggered/parallel). | | | | | | |

Unit: 1 hectare

1. Seedlings to be Raised: 1800 nos.

Seedlings to be Planted: 1600 nos.
 Spacing to be provided: 2.5 mt. x 2.5 mt.

4. Size of Planting Pits: 60 cm. x 45 cm. x 45 cm.
5. Wage Rate: Rs. 224.58 / Majdoor (As per labur commission Circular)

| Sl. No. | Particular of Works | | ys(md)/ ity. | Rate | Labour Cost | Material Cost | Total Cost |
|---------|--|-----------|-----------------|------------|-------------|------------------|------------|
| A. | Advance Nursery Works: (Seedling to be raised 18 | 800 nos.) | | | | | |
| 1 | Cleaning the Nursery area including cutting jungles | 1 | /md | 224.58 /md | 224.58 | | 224.58 |
| 2 | Making Mother bed of size 1.8X0.30X1.3X0.49 | 1 | /md | 224.58 /md | 224.58 | | 224.58 |
| | Making Tube bed of size 4mt X 1.20X0.15 | 1 | /md | 224.58 /md | 224.58 | | 224.58 |
| | Supply of Poly tube 1.5kg | | | , | | 300.00 | 300.00 |
| | Supply of Cowdung manure | | | | | 450.00 | 450.00 |
| | Supply of Good Earth | | | | | 300.00 | 300.00 |
| | Felling up poly plot.including mixing cowdung & | | | | | | |
| | placing in proper position in bed 1800 nos @ 360 Nos. per D.L. | 6 | /md | 224.58 /md | 1347.48 | | 1347.48 |
| 8 | Making Shed including supply of straw bamboo etc. 2nos. @ 100.00 | | | | | 200.00 | 200.00 |
| 9 | Supply of Straw for convering the bed 1/4 pan | | | | | 30.00 | 30.00 |
| 10 | Making Nursery fencing all around the Nursery | 3 | /md | 224.58 /md | 673.74 | | 673.74 |
| 11 | Supply of Fencing materials | | | | | 150.00 | 150.00 |
| | Making Nursery hut with thatch rooting & mud wall | 1 | /md | 224.58 /md | 224.58 | | 224.58 |
| 13 | Supply of Nursery hut materials | | | | | 200.00 | 200.00 |
| | Supply of Nursery materials empty tin, water can, rope etc. (Part) | | | | | 250.00 | 250.00 |
| 15 | Price of different seeds | | | | | 200.00 | 200.00 |
| | Dibbling seeds into the poly pot & supplying of tube to mother bed 900 nos./DL | 2 | /md | 224.58 /md | 449.16 | 200.00 | 449.16 |
| 17 | Watering, weeding, cleaning including application of insecticide up to 31st March | 5 | /md | 224.58 /md | 1122.90 | | 1122.90 |
| 18 | Supply of insecticides | | | | | 250.00 | 250.00 |
| 19 | Contingency | | | | | 168.00 | 168.00 |
| | A. Advance Work Total : | 20.00 | /md | 206.00 | 4491.60 | 2498.00 | 6989.00 |
| В. | Advance Soil Work : | | | | | | |
| 1 | Cleaning the Pltn. area (100%) including cutting jungles & uprooting bushes etc. | 5 | /md | 224.58 /md | 1122.90 | | 1122.90 |
| 2 | Survey and demarcation of Plantation Area (100%) | 2 | /md | 224.58 /md | 449.16 | | 449.16 |
| 3 | Alignment and Staking of Planting pits (40%) | 1 | /md | 224.58 /md | 224.58 | | 224.58 |
| 4 | Digging 770 numbers of Planting pit of size 60cm. x 45cm. x 45cm. at a spacing of 2.5mt. x 2.5mt. Over 1600 pits / hectqre @ 46md. Per ha. | 24 | /md | 224.58 /md | 5389.92 | | 5389.92 |
| 6 | Supply of Treasing paper for map prepration, rope, lime, bamboo peg etc. | | L.S. | | | 123.00 | 123.00 |
| | B. Creation Work Total : | 32.00 | /md | | 7186.56 | 123.00 | 7309.56 |
| | Grand Total A+B = | 52.00 | /md | | 11678.16 | 2621.00 | 14299.00 |

QGS PLANTATION-South Bengal

<u>Unit : 1</u>

QGS-Block Plyn. Creation

1. Seedlings to be Raised : 1800 nos. 2. Seedlings to be Planted : 1600 nos. 3. Spacing to be provided: 2.5 mt. x 2.5 mt. 4. Size of Planting Pits: 60 cm. x 45 cm. x 45 cm.
5. Wage Rate: Rs. 224.58

| SI. No. | Particular of Works | Mandays(md)/ Qnty. | Rate | Labour Cost | Material Cost | Total Cost |
|------------|--|------------------------|------------|----------------|------------------|------------|
| | Creation Works: | | | | | |
| 1) | Plantation Nursery Maint. work like Watering, weeding, clean | 12 md | 224.58 /md | 2694.96 | | 2694.96 |
| 2) | Cleaning the Pltn. area (60%) including cutting jungles & uprooting bushes etc. | 1.5 md | 224.58 /md | 336.87 | | 336.87 |
| 3) | Survey and demarcation of Plantation Area (60%) | 1.5 md | 224.58 /md | 336.87 | | 336.87 |
| 4) | Alignment and Staking of Planting pits (60%) | 1.5 md | 224.58 /md | 336.87 | | 336.87 |
| 5) | Digging 60% of Planting pit of size 60cm. x 45cm. x 45cm. at a spacing of 2.5mt. x 2.5mt. Over 1600 pits / hectqre @ 40md. Per ha. | 24.0 md | 224.58 /md | 5389.92 | | 5389.92 |
| 6) | Filing up the planting pits with the mixture of dugup Soil, cowdung manure and insecticide | 10.0 md | 224.58 /md | 2245.80 | | 2245.80 |
| 7) | Application of insecticide (2 times) after planting | 5.0 md | 224.58 /md | 1122.90 | | 1122.90 |
| 8) | Transplanting of seedling including carriage from nursery to planting site and loading unloading complete | 14.0 md | 224.58 /md | 3144.12 | | 3144.12 |
| 9) | Filling up the vacancies | 2.0 md | 224.58 /md | 449.16 | | 449.16 |
| 10) | Mulching, weeding, cleaning and application of fertiliser (2 times) | 32.0 md | 224.58 /md | 7186.56 | | 7186.56 |
| 11) | Hoeing the souring line along the boundary of the plantation | 2.0 md | 224.58 /md | 449.16 | | 449.16 |
| 12) | Cost of cutting box trench of 45 cm. wide and 30 cm. deep through out the plantation area along the counter line at a regular interval to lonsene the soil and moisture over 50 rtm. | 10.0 md | 224.58 /md | 2245.80 | | 2245.80 |
| 13) | Cutting of fire line against accidental fire | 8.0 md | 224.58 /md | 1796.64 | | 1796.64 |
| 14) | Making fencing around the planting area | 5.0 md | 224.58 /md | 1122.90 | | 1122.90 |
| 15) | Supply of Organic manure, Chemical fertilizer, hormone & insecticides | L.S. | | | 3142.75 | 3142.75 |
| | Total Creation : | 128.5 md | 206 | 28858.53 | 3142.75 | 32001.00 |

QGS Plantation Maintenance - Year-1 AREA 1 (ONE) HECTARE.

| SI. No. | Particulars Of Works | MD/Qtty. | Rates | Amount (Rs.) |
|---------|---|----------|--------|--------------|
| | Cost of doing the following works in connection | | | |
| | with 1st year maintenance of plantation | | | |
| | over 1 ha. | | | |
| 1 | Price of nursery raised seedlins 10% | 160 nos. | 3.5 | 560.00 |
| 2 | Planting seedlings by dig & plant method.1600 | | | |
| | seedlings . | 5 nos. | 224.58 | 1122.90 |
| 3 | Mulching around the seedlings with chemical | | | |
| | manure over 1 ha.one time. | 20 nos. | 224.58 | 4491.60 |
| 4 | Cleaning the plantation area by cutting climber & | | | |
| | bushes thorn etc. | 5 nos. | 224.58 | 1122.90 |
| 5 | Digging fire line 2 mt wide inside the plantation | | | |
| | area over 200 mt.during dry season. | 5 nos. | 224.58 | 1122.90 |
| 6 | Cost of fertilizer & insecticide etc. | L.S. | | 850.00 |
| 7 | Contingency etc. | | | 230.00 |
| | TOTAL | | | 9500.00 |

Block / QGS Plantation Maintenance - Year-2 AREA 1 (ONE) HECTARE.

| SI. No. | Particulars Of Works | Md/Qtty. | Rates | Amount (Rs.) |
|---------|---|----------|--------|--------------|
| | Cost of doing the following works in connection | | | |
| | with 1st year maintenance along of plantation | | | |
| | over 1 ha. | | | |
| 1 | Price of nursery raised seedlins 05% | 80 nos. | 3.5 | 280.00 |
| 2 | Plananting seedlings by dig & plant method.80 | | | |
| | seedlings. | 2.5 md | 224.58 | 561.45 |
| 3 | Mulching around the seedlings with chemical | | | |
| | manure over 1 ha.one time | 14 md | 224.58 | 3144.12 |
| 4 | Cleaning the plantation area by cutting climber & | | | |
| | bushes thorn etc. | 5 md | 224.58 | 1122.90 |
| 5 | Digging fire line 2 mt wide inside the plantation | | | |
| | area over 200 mt.during dry season. | 4 md | 224.58 | 898.32 |
| 6 | Price of chemical fertilizer / manure | L.S. | | 300.00 |
| 7 | Contingency (Price of chemical manure) etc. | L.S. | | 193.00 |
| | TOTAL | | | 6500.00 |

SOUTH BENGAL BAMBOO PLTN

| 1 | Spacing Prescribed as per Working Plan | 5m X 5m |
|---|--|--|
| 2 | Pit Size /Planting Model | As per working plan |
| 3 | Species | Bamboo sp. |
| 4 | No of seedlings to be planted per Ha | 400 |
| 5 | Planting Pattern | 1.Only mature culms may be felled. (The colour of a mature culm is uniform throughout and it can also be recognized by the absence of its sheaths. An immature culm is covered with mealy powder all over it). |
| | | Bamboo should be cut at least two nodes above the ground so as to prevent the rhizomes from drying up. |
| | | 3. Congestion in the clumps shall be removed by cutting across the middle of the clumps so that the mature bamboo from the center may be extracted. Usually the outer culms are young. |
| | | 4. The exploitation shall proceed systematically from one end of a block. |
| | | 5. Sufficient number of culms should be retained in each clump. |
| | | 6. Tops and branches of cut bamboo shall be removed from the clumps. |
| | | 7. Every clump of bamboo shall be given a three years period of rest after each felling. |
| | | 8. As far as practicable earth may be put in the bamboo clumps to cover up the roots and rhizomes in March. |
| | | 9. Planting of bamboo may be undertaken in the forests and in plantations. |
| | | Planting pattern method:as per working plan(staggered/parallel). |

Unit :: 1.0 ha

Nature of Work :- Bamboo Pltn. Advance

| | | Man | -days. | | | | Ma | aterial c | omp. | |
|----------|--|-----|--------|----------------|--------|-------------------|------------------|-----------|------------------------|--------------|
| SI No | Details of works. | М | F | Total/ M.D. | Rate | T/Cost of M.D. | Inputs. /ors. | Rate | Total Material s | Total. (Rs.) |
| 1 | Thorough cleaning of plantation site by cutting jungles, bushes, abnoxious weeds and their removal | 3 | 0 | 3 | 224.58 | 673.74 | | | | 673.74 |
| 2 | Surveying & demarcation of plantation site/s, including preparation of Map. | 2 | 0 | 2 | 224.58 | 449.16 | | | | 449.16 |
| 3 | Alignment of planting pits as per planting pattern in staggered fashion . | 3 | 0 | 3 | 224.58 | 673.74 | | | | 673.74 |
| 4 | Digging planting pits of size (0.60x 0.45 x 0.45)m, at a spacement of 6.00m x 4.00m, pit to pit and line to line apart @ 416 nos planting pits /ha.(.60+.40)/2 x .45 x .45 | 4 | | 4 | 224.58 | 898.32 | | | | 898.32 |
| 5 | Erection of brushwood /Livehedge fencing including collection of all materials. | 3 | | 3 | 224.58 | 673.74 | | | | 673.74 |
| | Total | | | 15 | 224.58 | | | • | | |
| 6 | Cost of Fencing materials | | | | | | | | 200.00 | 200.00 |
| 7 | Cost of supply of nodes/rhizomes including carriage for 580 single node. | | | | | | | | 2500.00 | 2500.00 |
| 8 | Cost of supply hormone and fungicide | | | | | | | | 500.00 | 500.00 |
| 7 | Cost of supply of cowdung manure, sand & good earth. | | | | | | | | 300.00 | 300.00 |
| 8 | contingency | | | | | | | | 131.30 | 131.30 |
| | Total cost for 1.00 ha. | 15 | 0 | 15 | | 3368.70 | | | 3631.30 | 7000.00 |

SOUTH BENGAL BAMBOO WORK CREATION

| Α | NURSERY WORK | MD | | |
|---|---|----|--------|----------|
| 1 | Watering, cleaing weeds, application of insecticides etc over 110 days | 26 | 224.58 | 5839.08 |
| | Sub Total | 26 | 224.58 | 5839.08 |
| В | PLANTATION WORK | | | |
| 1 | Cost of digging planting Pits[(0.6m+0.4m)/2x0.45mx0.45m @416 Nos of spacing 6.0x4.0 mt (balance pits) | 4 | 224.58 | 898.32 |
| 2 | Cost of filling planting pit with cowdung mannure | 4 | 224.58 | 898.32 |
| 3 | Cost of carriage of bamboo rhizome from nursery to planting site | 2 | 224.58 | 449.16 |
| 4 | Erecting brush wood fencing around the plantation as and where necessary | 6 | 224.58 | 1347.48 |
| 5 | Cost of planting bamboo rhizome/single nodded cutting in plantation site over 417 numbers | 5 | 224.58 | 1122.9 |
| 6 | Cost of 1st mulching including application of fertilizer | 5 | 224.58 | 1122.9 |
| 7 | Cost of 2nd mulching | 4 | 224.58 | 898.32 |
| 8 | Cutting fireline | 2 | 224.58 | 449.16 |
| | Sub Total | 58 | 224.58 | 13025.64 |
| С | MATERIALS | | | |
| 1 | Cowdung mannure | LS | 1000 | |
| 2 | Fertilizer @ 50gm/pit | LS | 500 | |
| 3 | Insecticides | LS | 186 | |
| 4 | Carriage of single node cutting/ rhizome | LS | 1000 | |
| 5 | Carriage of fertilizer, etc | LS | 200 | |
| 6 | Cost of fencing materials | LS | 250 | |
| | Sub Total | | | 3136 |
| | Total | | | 22000.72 |
| | Grand Total | | | 22001.00 |

Maint of Bamboo Plantation Y-1 UNIT 1.00 ha.

Nature of Work :- Bamboo Pltn. Maintenance-Y1.

16pacing: for Bamboo(5.00 x 5.00)m pit to pit and line to line apart in blocks in staggered fashion. 416 Seedlings/ha.

| | | Man- | -days. | | | | Material comp. | | | |
|--|---------------------------------------|------|--------|--------------------------|------------------|---------|--------------------|-------------|---------|---------|
| SI No | No Details of works. M F Total/ M.D. | | Rate | Total Cost of M.D. | Inputs./ ors. | Rate | Total Materials | Total (Rs.) | | |
| Cost of doing infilling, and putting earth at the base of the culm with fertilizer | | 3 | | 3 | 224.58 | 673.74 | | | | 673.74 |
| 2 | Repairing of fencing | 2 | | 2 | 224.58 | 449.16 | | | | 449.16 |
| 3 | Watering of the stock | | | | | | | | 300.00 | 300.00 |
| 4 Cost of supply ferilizer and insecticides | | | | | | | | | 600.00 | 600.00 |
| 5 | Supply of seedlings for infilling | | | | | | | | 350.00 | 350.00 |
| 6 Contingency. | | | | | | | | | 27.00 | 27.00 |
| | Total cost for 1.00 ha. | 5 | 0 | 5 | 224.58 | 1122.90 | | | 1277.00 | 2400.00 |

Maint of Bamboo Plantation Y-2 UNIT 1.00 ha.

Spacing: for Bamboo(5.00 x 5.00)m pit to pit and line to line apart in blocks in staggered fashion. 416 Seedlings/ha.

Nature of Work :- Bamboo Pltn. Maintenance-Y2.

| | | Man- | Man-days. | | | Total | М | | | |
|--|--|------|-----------|---------|--------|-----------------|------------------|------|--------------------|-------------|
| SI No | Details of works. | М | M F M.D. | | Rate | Cost of M.D. | Inputs./ ors. | Rate | Total Materials | Total (Rs.) |
| 1 | Cost of doing infilling, and putting earth at the base of the culm | 3 | 3 | | 224.58 | 673.74 | | | | 673.74 |
| 2 | Repairing of fencing | 2 | | 2 | 224.58 | 449.16 | | | | 449.16 |
| 4 Cost of supply ferilizer and insecticides | | | | | | | | | 220 | 220.00 |
| 5 | 5 Supply of seedlings for infilling | | | | | | | | 300 | 300.00 |
| 6 | 6 contingency | | | | | | | | 57.1 | 57.10 |
| Total cost for 1.00 ha. 5 0 5 224.58 1122.90 | | | 577.10 | 1700.00 | | | | | | |

SOUTH BENGAL STRIP PLANTATION

| 1 | Spacing Prescribed | 2 5 m Y 2 5 m |
|---|---|--|
| | as per Working Plan | 2.311 A 2.3111 |
| 2 | Pit Size /Planting Model | (0.6+0.45)/2x0.45x0.45 m ^{3 Trench} |
| 3 | Species | Terminalia belerica (Bahera), Emblicaofficinates(Amloki), Terminalia chebula(Haritaki), Azadirachtaindica(Neem), Terminalia arjuna(Arjun), Terminalia tomentosa(Asan) & other species as Rauvolfia serpentine (Sarpgandha), Ocimum sanctum(Tulsi), Addrographispaniculata(Kalmegh), Hemidesmusindicus(Anantamul) etc. |
| 4 | No of seedlings to be planted per Ha | As per working plan |
| 5 | Planting Pattern | 1.Digging of pits size(0.6+0.45)/2x0.45x0.45 |
| | | 2. Filling up of planting pits with dug up pulverized soil. |
| | | Transplanting of potted seedlings including carriage from field nursery to planting site and stacking. |
| | | 4. Application of insecticide to the planted seedlings. |
| | | 5. Pricking out and sorting and shifting of the seedlings in the field nursery. |
| | | 6. Infilling of vacancy created due to field mortality including carriage. |
| | | 7.1^{ST} mulching by digging earth around pits and cleaning, weeding and application of fertilizers. |
| | | 8.2 nd mulching, cleaning, weeding including application of 2 nd dose of fertilizers. |
| | | 9.3 rd mulching, cleaning, weeding. |
| | | 10.4 th mulching,cleaning and weeding |
| | | 11.Cutting firelines 3m wide to prevent accidental fire |
| | | 12. Cutting trenches of size 0.60mx0.45m inside the plantation area and boundary. |
| | | 13. Watering of seedlings and watch and ward. |
| | | 14. Making live hedge fencing. |
| | | IN-SITU CONSERVATION:- |
| | | Conservation through the protection and assistant natural regeneration activities of natural areas should be the main focus for in situ conservation. Some of the other points are as follows. |
| | | 1. Natural regeneration through renewal of degraded forest and augmentation of NTFP resources through supplemental planting shall be taken up. |
| | | 2. The Forest department staff as well the communities should be jointly trained and motivated through reorientation of ecological and economic importance of the NTFP species. |
| | | EX-SITU CONSERVATION:- |
| | | Species listed in CITES listed and Negative listed shall not be allowed to be extracted from the forest area. However the Divisional forest Officer shall try to promote the Ex-Situ conservation of these species outside Forest areas in order to sensitize the local population about the benefits and marketing opportunities of NTFP species. |
| | | Domestication and cultivation of NTFP species shall be promoted by offering technical and material inputs to the farmers/villagers. |
| l | Ì | Planting pattern method:as per working plan(staggered/parallel). |

| | Description | Unit | Qua | antity | Unit | Price | | Cost (Rs.) | |
|-------|--|--------------------|----------------|----------|---------|----------|---------------------------|-------------------|----------------------|
| | | | | Material | | | Labour | Material | Total(Rs.) |
| I. | ADVANCE WORKS - (Strip Plantation) | | | | | | | | |
| | Survey & demarcation of the field nursery area | man-day | 1 | 0 | 224.58 | | 224.58 | 0 | 224.58 |
| | 2. Cleaning the field nursery site by bush cutting/burning and removing debris | | | | | | | | |
| | | man-day | 1 | 0 | | | 224.58 | 0 | 224.58 |
| | 3. Preparation of mother beds | man-day | 4 | 0 | | | 898.32 | 0 | |
| | 4. Preparation of Polypot beds | man-day | 3 | 0 | | 0 | 673.74 | 0 | 673.74 |
| | 5. Collection of seeds 6. Filling of polythene tubes | man-day man-day | 7 | 0 | | 0 | 449.16 1572.06 | 0 | 449.16 1122.9 |
| | 7. Sowing of seeds in mother beds | man-day | 4 | 0 | | | 898.32 | 0 | 898.32 |
| | 8. Pricking out the sprouted seedings and transplanting to polypot beds | man-day | 3 | 0 | | | 673.74 | 0 | 673.74 |
| | 9. Watering the seedings | man-day | 2 | 0 | | | 449.16 | 0 | |
| | 10. Digging of Kuccha well for water source | man-day | 2 | 0 | | 0 | | 0 | |
| | 11. Making a temporary field nursery hut of Bamboo, Thatch mudwall etc. | man-day | 2 | 0 | 224.58 | | 449.16 | 0 | 449.16 |
| | 12. Survey & demarcation of the plantation area | man-day | 1 | 0 | 224.58 | | 224.58 | 0 | 224.58 |
| | 13. Advance Soil works by digging, planting pits of size (0.60+0.45)/2x0.45x0.45 | | | | | | | | |
| | m3 including site cleaning (part) | man-day | 20 | 0 | | | 4491.6 | 0 | 4491.6 |
| | 14. Cost of insecticide, fertilizer including carriage | LS | 0 | | 0 | 300 | 0 | | 300 |
| | 15. Cost of Polybags | LS | 0 | 1 | 0 | 400 | 0 | 400 | 400 |
| | 16. Cost of transported good earth and cow dung manure for applicationn in the | | | | 0 | 500 | | 500 | 500 |
| | field and nursery | LS LS | 0 | | 0 | 500 | 0 | | 500 |
| | 17. Cost of Rope/tin/watering can/bamboo/thatch etc. 18. Cleaning the plantation site | man-day | 10 | 0 | | 425 | 2245.8 | 425 0 | 425 2245.8 |
| | Sub Total of I | man-uay | 62 | U | 224.58 | | 13924 | 1625 | 15100 |
| II. | CREATION WORKS - (Strip Plantation) | | 02 | | | | 13324 | 1023 | 13100 |
| | 19. Digging of pits of size (0.6+0.45)/2 x 0.45 x 0.45(balance) | man-day | 28 | 0 | 224.58 | | 6288.24 | 0 | 6288.24 |
| | 20. Filling up of planting pits with dug up pulverized soil | man-day | 12 | 0 | | | 2694.96 | 0 | |
| | 21. Cleaning the plantation area befrore planting | man-day | 6 | 0 | 224.58 | | 1347.48 | 0 | 1347.48 |
| | 22. Transplanting of potted seedings including carriage from field nursery to | | | | | | | | |
| | planting site and staking | man-day | 26 | 0 | 224.58 | 0 | 5839.08 | 0 | 5839.08 |
| | 23. Application of insecticide to the planted seedings | man-day | 2 | 0 | | 0 | | 0 | 449.16 |
| | 24. Pricking out and sorting & shifting of the seedings in the field nursery | man-day | 4 | 0 | | 0 | | 0 | 898.32 |
| | 25. Infilling of vacancy created due to field mortality including carriage | man-day | 4 | 0 | 224.58 | | 898.32 | 0 | 898.32 |
| | 26. 1st mulching by digging earth around pits and cleaning, weeding and | l . | | | | | | | |
| | application of fertilizers | man-day | 16 | 0 | 224.58 | 0 | 3593.28 | 0 | 3593.28 |
| | 27. 2nd mulching clooning wooding including application of 2nd does of fortilizer | man day | 1.1 | 0 | 224 50 | 0 | 3144.12 | 0 | 2144 12 |
| | 27. 2nd mulching, cleaning, weeding including application of 2nd dose of fertilizer 28. 3rd mulching, cleaning, weeding | man-day man-day | 14 10 | | | 0 | | 0 | |
| | 29. 4th mulching, cleaning, weeding | man-day | 10 | 0 | | 0 | | 0 | 2245.8 |
| | 30. Cutting firelines 3 m wide to prevent accidental fire | man-day | 8 | 0 | | 0 | | 0 | 1796.64 |
| | 31. Cutting trenches of size 0.60m x 0.45m inside the plantation area and | man day | J | | 22 1150 | | 1730101 | Ů | 2750101 |
| | boundary where necessary @ 100 m per hectare | man-day | 16 | 0 | 224.58 | 0 | 3593.28 | 0 | 3593.28 |
| | 32. Watering of seedings and watch and ward | man-day | 8 | 0 | 224.58 | 0 | 1796.64 | 0 | 1796.64 |
| | 33. Sorting & Shifting of seedings two times | man-day | 2 | 0 | 224.58 | | 449.16 | 0 | 449.16 |
| | 34. Making live hedge fencing | man-day | 12 | 0 | 224.58 | 0 | 2694.96 | 0 | 2694.96 |
| | 35. Cost of insecticide, fertilizer including carriage | LS | 0 | | 0 | 2000 | 0 | | 2000 |
| | 36. Cost of materials like Ipomoea for live hedge fence | LS | 0 | | 0 | 1000 | 0 | | 1000 |
| | 37. Cost of Bamboo for live hedge fencing - 8 nos. | nos. | 0 | 8 | 0 | 100 | 0 | 740 | 740 |
| | 38. Contingencies Rope/tin/watering can/thatch etc. | LS | 0 | | 0 | 300 | 0 | | 300 |
| | 39. Watch & ward from cattle, fire etc. mandays | man-day | 40 | 0 | 224.58 | 0 | | 0 | 8983.2 |
| 111 | Sub Total of II 1st YEAR MAINTENANCE- of B1 & B2 (Strip & Block Plantation) | <u> </u> | 218 | <u> </u> | | <u> </u> | 48958.4 | 4040 | 52998 |
| 1111. | 40. Vacancy filling/Beating up operation | man-day | 3 | 0 | 224.58 | | 673.74 | 0 | 673.74 |
| | 41. Mulching with fertilizers including weeding and cleaning over the entire area - | uii uay | 3 | " | 227.30 | | 573.74 | , J | 0/3./4 |
| | three times | man-day | 35 | 0 | 224.58 | | 7860.3 | 0 | 7860.3 |
| | 42. Maintenance of the fire lines by cutting grasses/bushes | man-day | 5 | 0 | | | 1123 | 0 | |
| | 43. Repairing of live hedge fencing | man-day | 7 | | | 0 | | 0 | |
| | 44. Watch & ward for protection of plantation. | man-day | 46 | | | 0 | | 0 | 10330.68 |
| | 45. Cost of fertilizers, fencing materials etc. | LS | 0 | 1 | 0 | 2440 | 0 | 2440 | 2440 |
| | Sub Total of III | | 96 | | | | 21559.7 | 2440 | 24000 |
| IV. | 2nd YEAR MAINTENANCE- of B1 & B2 (Strip & Block Plantation) | 1 | 1 | ı | | 1 | 1 | 1 | |
| | 46. Mulching without fertilizers including hoeing the base over the entire area - | | 1 | | | | | | |
| | two times | man-day | 23 | | | 0 | | 0 | 5165.34 |
| | | man-day | 7 | 0 | | 0 | | | 1572.06 |
| | 47. Repairing of live hedge fencing | | 48 | 0 | 224.58 | 0 | | 0 | 10779.84 283 |
| | 48 Watch & ward from cattle, fire etc. mandays | man-day | | | ^ | 200 | | רחר | |
| | 48 Watch & ward from cattle, fire etc. mandays 49. Cost of fencing materials including repairs etc. | man-day LS | 0 | 1 | 0 | 200 | 17517 2 | | |
| v | 48 Watch & ward from cattle, fire etc. mandays 49. Cost of fencing materials including repairs etc. Sub Total of IV | | | 1 | 0 | 200 | 17517.2 | 283 283 | |
| v. | 48 Watch & ward from cattle, fire etc. mandays 49. Cost of fencing materials including repairs etc. Sub Total of IV 3RD YEAR MAINTENANCE- of B1 & B2 (Strip & Block Plantation) | | 0 | 1 | 0 | 200 | | | 17800 |
| V. | 48 Watch & ward from cattle, fire etc. mandays 49. Cost of fencing materials including repairs etc. Sub Total of IV 3RD YEAR MAINTENANCE- of B1 & B2 (Strip & Block Plantation) 50. Mulching without fertilizers including hoeing the base over the entire area - | LS | 78 | 1 | | | 17517.2 | 283 | 17800 |
| v. | 48 Watch & ward from cattle, fire etc. mandays 49. Cost of fencing materials including repairs etc. Sub Total of IV 3RD YEAR MAINTENANCE- of B1 & B2 (Strip & Block Plantation) 50. Mulching without fertilizers including hoeing the base over the entire area one time | LS man-day | 0 78 | 0 | 224.58 | 0 | 17517.2 3144.12 | | 17800 3144.12 |
| V. | 48 Watch & ward from cattle, fire etc. mandays 49. Cost of fencing materials including repairs etc. Sub Total of IV 3RD YEAR MAINTENANCE- of B1 & B2 (Strip & Block Plantation) 50. Mulching without fertilizers including hoeing the base over the entire area - | LS | 78 | 0 0 | 224.58 | | 17517.2 3144.12 | 0 0 | 17800 |

Estimate for Creation Work of Mangrove Plantation $\mbox{Unit= 1 hec.}$

| | | Total/ | Rate (Rs) | T/Cost of | M | aterial co | omp. | |
|----|---|--------|-----------|-----------|----------|------------|-----------|-------------|
| SI | Details of works. | M.D. | , , | M.D. (Rs) | Inputs./ | Rate | Total | Total. (Rs) |
| No | Details of Works. | | | | ors. | | Materials | rotan (no) |
| | | | | | | | (Rs) | |
| 1 | Survey & demarcation over the area | 2 | 224.58 | 449.16 | | | | 449.16 |
| 2 | Alingment & stacking for digging of treanches over 2500 mt. | 1 | 224.58 | 224.58 | | | | 224.58 |
| 3 | Digging of treanches for sowing seed over 2500 mt. 0.3 mt. x 0.3 mt. | 40 | 224.58 | 8983.20 | | | | 8983.20 |
| 4 | Cost of digging pits 0.30 mt x 0.3 mt. at a spacing 2 mt. x 2 mt. in between dug up treanches over 2500 seedlings | | 224.58 | 8084.88 | | | | 8084.88 |
| 5 | Cost of carriage of seedlings from nursery to planting site | 2 | 224.58 | 449.16 | | | | 449.16 |
| 6 | Cost of diblling seeds in dug up treanches | 10 | 224.58 | 2245.80 | | | | 2245.80 |
| 7 | Planting of polypotted seedlings over 2500 nos. pits | 17 | 224.58 | 3817.86 | | | | 3817.86 |
| 8 | In-filling the vacancies for 3 times | 12 | 224.58 | 2694.96 | | | | 2694.96 |
| 9 | Cost of watch & Ward from Sept. to March | | | | LS | | | 7551.60 |
| | Total : | | | | | | | 34501.00 |

| 1 | Spacing Prescribed as per Working Plan | 2.5m X 2.5m |
|---|--|--|
| 2 | Pit Size /Planting Model | (0.60+0.40)/2X0.45X0.45 m ^{3 Pit} |
| 3 | Species | Abelmoschusmoschatus / Latakasturi; Aphanamixispolystachya / Royena, Pithraj; Asparagus racemosus / Satamul,;Celastruspaniculatus / Malkanjri, Peng;Desimodiummotorium /Banchandal; Ipomoea mauritiana / Giant potato(Bhumikumra);Rauvolfiaserpentina / Sarpangandha;Tylophoraindica / Antamul;Viscumarticulatum / Mandala; Ipomoea paniculata / Bhuikumra; etc. |
| 4 | No of seedlings to be planted per Ha | 1600 |
| 5 | Planting Pattern | Territorial Divisional Forest Officers should develop strategies for raising of nursery seedlings of medicinal plants in selected areas. |
| | | A.Seedling should be raised in Nursery (preferbly to nearest Beat office location) and treatment of nursery seedlings to be followed as standard Silviculture system. Seedlings would be planted both in Development & Sal working circle areas. In case of shrubs species which have medicinal value such species should be planted as intercropping in both type of working circles. The standards for planting NTFP and Medicinal plants species should be developed by the Silvicultural division or help may be taken up from Forest Research Institute, Dehradun and should be utilized for imparting benefit to local FPC members in form of extraction of fruit, roots etc. A marketing chain should be brought into operation for fetching proper price for these products. FPC members should be involved for planting maintenance and harvesting works of such species. |
| | | B.From the Resource Enumeration data, it is observed that Thankuni (Canscora decussate), Amada (Cureumaamada) and Kutla (Croton oblongifolius) has been threatened in all the divisions and a special need is felt for taking up the conservation of this herb in the area. It must, therefore be assured that extraction of this species is not allowed by anyone in this division during this plan period. Also special efforts to be taken up to raise this herb in nurseries and plant with the regular plantations to boost its stock. |
| | | In-situ conservation of medicinal plants by way of introduction of indigenously occurring species with medicinal value will be taken up. |
| | | Planting pattern method:as per working plan(staggered/parallel). |

| Item of | Butte Louis Committee | Unit/Rate/ | Unit Cost / | Amount |
|--------------|--|--------------|-------------|---------------|
| works | Particulars of expenditure | MDs | Rate | (in Rs.) |
| | Cost of doing the following works in c/w creation of Me | dicinal pltn | | |
| A. | Advance Works | | | |
| 1 | Cost of Survey demarcation of proposed pltn. area including preparation of | 2 | 224.58 | 449.16 |
| | operational map. | 2 | 224.56 | 449.10 |
| 2 | Cleaning plantation site by cutting bushes, jungles throughly including | 16 | 224.58 | 3593.28 |
| | removal the same. | 10 | 224.38 | 3393.20 |
| 3 | Stacking and alignment of planting pits. 1600 per ha. | 2 | 224.58 | 449.16 |
| Δ | Digging planting pits size $(0.60 + 0.40)/2 \times 0.45 \times 0.45 \text{ mtr.} = 1600 \text{ Nos.}$ | 46 | 224.58 | 10330.68 |
| | (2.50 x 2.50) mtr. Apart. | 40 | 224.50 | 10330.00 |
| 5 | Contingency | L.S. | | <u>516.00</u> |
| | Total in Rs. | | | 15338.00 |
| В. | Creation works | | | |
| 1 | Filling up planting pits with dug up earth and neem oil cake, cowdung, FYM. | 14 | 224.58 | 3144.12 |
| 2 | Cost of transporting seedlings to field including loading and unloading. | 6 | 224.58 | 1347.48 |
| 3 | Transplanting of potted seedlings including carriage by manual labour including infilling. | 22 | 224.58 | 4940.76 |
| 4 | 1st time weeding clearning & mulching with application of fertilizer. | 16 | 224.58 | 3593.28 |
| 5 | 2nd time weeding clearning & mulching with fertilizer. | 14 | 224.58 | 3144.12 |
| 6 | 3rd time weeding cleaning & mulching with fertilizer. | 12 | 224.58 | 2694.96 |
| 7 | Spraying of weedicides as and when required and cutting of swarnalata and watering. | 4 | 224.58 | 898.32 |
| 8 | Making fire line 3.0 mtr. Wide all along the periphery and 1.20 mt. width inside plantation. By Mazdoors - 06 | 6 | 224.58 | 1347.48 |
| 9 | Watch & word over the plantation area. | L.S. | | 4000.00 |
| 10 | Cost of supply of cowdung manure, organic manure, neem oil cake, DAP (2 times) | L.S. | | 4000.00 |
| 11 | Contingency | L.S. | | 444.00 |
| | Total in Rs. | | | 29554.00 |
| Estimate for | erecting of Barbed wire fencing around the Medicinal Tree Species Plantati | on | | |
| C. | Erecting of barbed wire fencing. | | | |
| 1 | Purchase of Fencing post of 6' height 31 to 40 cm girth including local | 138 | F0 00 | 6000.00 |
| 1 | carriage, loading (138 Nos.) | 138 | 50.00 | 6900.00 |
| 2 | Cost of purchase of Barbed wire 2 ply 700 kg. (6 stands x 250 RMT = 1500 RMT, 175 Kgs. considering for fencing of plantations. | 175 | 70.00 | 12250.00 |
| 3 | Fitting fixing and tightening post by digging hole 550 nos. over the 250 RMT including 9 MD | 9 | 224.58 | 2021.22 |
| 4 | Straining barbed wire over 250 RMT x 6 stands (9 MD) | 9 | 224.58 | 2021.22 |
| | Supply of U pins 138 x 6 Nos.+ 10% extra = 3630 Nos. (911 Nos.) | 911 | 0.80 | 729.00 |
| | Contingency (purchase of coalter etc.) | L.S. | | 1233.00 |
| | Total in Rs. For 1 ha. | | | 25154.00 |

NORTH BENGAL SAL & ASSO. JICA

| 1 Spacing Prescribed as per Working Plan | 2m X 2m |
|--|--|
| 2 Pit size or planting order | Pit:(0.45X0.45X0.30m) |
| 3 Species | Sal plantations mostly have Kawla (Machilus sp.), Alpanamixis polystachya, Premna spp and Dillenia species as principal associates in order of abundance. Valuable species that come next are Odal (Sterculia villosa), Gamar (Gmelina arborea), Bahera (Terminalia belerica), Dabdabe (Garuga pinnata), Chiloune (Schima wallichii), Champ (Michelia champaca) and Sidha (Lagerstroemia parviflora), Pakasaj (Terminalia tomentosa), Lali (Amoora wallichii), Chiloune (Schima wallichii) also occur at a lesser percentage. |
| 4 No of seedlings to be planted per Ha | 1250 |
| 5 Planting Pattern | The following planting pattern is prescribed:- |
| | 1. 1^{st} line -8^{th} Sal line: Each line shall have 3 rows 15cm apart. In each row, Sal seed is to be sown. In the middle row, one year old Sal seedling is to be planted at 2m spacing as insurance crop. |
| | 2. 9 th Line – 16 th line: Lahasune, Sidha, Kanchan and Sonalu to be planted in alternate strip of 13.5m long. |
| | 3. $17^{th} - 24^{th}$ Sal line: Each line shall have 3 rows 15cm apart. In each row, Sal seed is to be sown. In the middle row, one year old Sal seedling is to be planted at 2m spacing as insurance crop. |
| | 4. 25 th - 32 nd line: Lali, Pakasaj, Bahera/Amloki and Totola to be planted in alternate strip of 13.5m long. |
| | 5. $33^{rd} - 40^{th}$ Sal line: Each line shall have 3 rows 15cm apart. In each row, Sal seed is to be sown. In the middle row, one year old Sal seedling is to be planted at 2m spacing as insurance crop. |
| | 6. 41 st to 48 th Line: Chikrasi, Toon, Champ and Chiloune to be planted in alternate strip of 13.5m long. |
| | Felling is prescribed during this plan period. Clear felling followed by artificial regeneration and intercropping in between the lines is prescribed. In the plantation 1st – 8th lines, 17tl – 24th line and 33rd to 40th line should be sown by Sal seeds in 3 rows 15 cm apart. In the middle of each row Sal seedling one year old should be planted as insurance against any failure of Sal seed germination. Rest of the lines shall have miscellaneous species other than Sal at 2m X 2m spacing. No Teak is to be planted or infilled in Sal Working Circle. For bad Sal seed year, Sal sowing may be replaced by lines of Champ, Chiloune, Pakasaj, Garja and Behera but it should be permitted by the respective Conservator of Forests. The same should invariably be stated in the plantation journal and should also be brought to the knowledge of the Working Plan Wing. Nursery provision is to be made for raising Sal seedling. During bad Sal seed year collection of Sal seedling is to be done from elsewhere. North Bengal. Infilling should be preferably done with Sal seedlings one year old. Infilling with miscellaneous species should be done for miscellaneous lines. If Sal seedlings are not available due to bad Sal seed year infilling may be done by miscellaneous species but preference should be given first for Sal seedling. Reason as to why Sal seedling could not be planted or infilled should invariably be stated in the plantation journal. Acacia auriculiformis and other fast growing species which are totally alien to the region shall not at all be planted. |

| Category | SI No | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
|----------|-------|---|------------------------|------|----------|-------------------------|---------------------|--------|-----------------|
| Advance | 1 | Survey and demarcation of the plantation area including GPS Survey by Technical person | 1 | ha | Labour | 1.00 | 1 | 224.58 | 224.58 |
| Advance | 2 | Alignment of Planting lines (50% area) and staking the pit positions | 1250 pit +sal lines | nos | Labour | 1250 + Sallines | 1.50 | 224.58 | 336.87 |
| Advance | 3 | Advance of Soil works by digging planting pits of size (0.40+0.30/2x0.30X0.30m3 at 2.0x2.0 m spacing (1250 nos. over 50% area for mise .Spps only) | 1,250.00 | nos | Labour | 125.00 | 10.00 | 224.58 | 2245.8 |
| Advance | 4 | Cleaning of the pltn site and making inspection path | 1 | ha | Labour | 0.05 | 20.00 | 224.58 | 4491.6 |
| Advance | 5 | Preparation of sal lines by hoeing | 0.50ha | ha | Labour | 0.05 | 10.00 | 224.58 | 2245.8 |
| Advance | 6 | Preparation of Sal lines by hoeing | 1 | ha | Labour | 0.16 | 6.00 | 224.58 | 1347.48 |
| Advance | 7 | Carriage of seedlings from Central Nursery to Planting site including loading and unloading and return of Stand and Root Trainrs to Central Nursery | 1250.00 | nos | Material | | | | 750.00 |
| Advance | 8 | Transplanting of potted seedlings in pits, including filling up of planting pits with dug up pulverized soil, carriage of Root Trainers to planting site and collection and recarriage of Root Trainers to local store site | 1250.00 | nos | Labour | 125 | 10.00 | 224.58 | 2245.8 |
| Advance | 9 | Vacancy infilling including planting in sal lines against failure of sowing | 500.00 | nos | Labour | 60 | 8.00 | 224.58 | 1796.64 |
| Advance | 10 | Supply of sal seeds including carriage upto the site | 100.00 | kg | Material | | | | 4000.00 |
| Advance | 11 | Sowing sal seeds in 3 rows in each line (sowing to be done in one row at a time) | 0.50 | ha | Labour | 0.08 | 6.00 | 224.58 | 1347.48 |
| Advance | 12 | 1st weeding and hand cleaning of sal lines | 0.50 | ha | Labour | 0.05 | 10.00 | 224.58 | 2245.8 |
| Advance | 13 | 1st mulching, weeding, clleaning for mise. Lines and Sal seedlings planted against failure of sowing. | 0.50 | ha | Labour | 0.05 | 10.00 | 224.58 | 2245.8 |
| Advance | 14 | 2nd weeding including hand cleaning of sal lines and application of fertilizer | 0.50 | ha | Labour | 0.06 | 8.00 | 224.58 | 1796.64 |
| Advance | 15 | 2nd mulching, weeding, cleaning of mise. Lines and sal seedlings planted against failure of sowing including application of fertilizer | 0.50 | ha | Labour | 0.06 | 8.00 | 224.58 | 1796.64 |
| Creation | 16 | 3rd weeding including hand cleaning of Sal lines | 0.50 | | Labour | 0.07 | 7.00 | 224.58 | 1572.06 |
| | 17 | 3rd mulching, weeding, cleaning of mise. Lines and Sal seedlings Planted against failure of sowing | 0.50 | | Labour | 0.07 | 7.00 | 224.58 | 1572.06 |
| | 18 | 4th Weeding cleaning for whole plantation area | 1.00 | | Labour | 0.1 | 10.00 | 224.58 | 2245.8 |
| | 19 | 5th Weeding cleaning for whole plantation area | 1.00 | | Labour | 0.12 | 8.00 | 224.58 | 1796.64 |
| | 20 | Cutting fire lines 3.0 m wide | 400.00 | | Labour | 125 | 3.00 | 224.58 | 673.74 |
| | 21 | Erection of live hedge /(ipomea, vitex, thorny spps.) fencing with bamboo/bamboo posts including local carriage of all material | 400.00 | | Labour | 100 | 4.00 | 224.58 | 898.32 |
| | 22 | Material for live fencing including carriage up to site | | | Material | | | LS | 1200.00 |
| | 23 | Carriage for fertilizer , insecticide etc. | | | Material | | | LS | 600.00 |
| | 24 | Cost of fertillizer, oil cakes and insecticides ets. Including carriage upto site | | | Material | | | LS | 3000.00 |
| | 25 | Watch & Ward (1md per 10ha)for 6 months | LS | | Labour | | 18.00 | 224.58 | 4042.44 |
| | 26 | Cutting trenches for drainage as required | LS | | Labour | | 10.00 | 224.58 | 2245.8 |
| | 27 | Contingencies - Labour | | | Labour | | | LS | 180 |
| | 28 | Contingencies - Meterial | | | Material | | | LS | 100 |
| | 29 | Contingencies- Material | | | Labour | | | LS | 112 |
| | 30 | Contingencies - Meterial | | | Material | | | LS | 150 |
| <u> </u> | L | Total | | | | | | | 49505 |

Estimate for Plantation of Sal and Associates Species: A6 Model- Maint. Year 1

| | | Estimate | of A6 1st Ye | ar Maintena | ince | | | | |
|-----------|---------|---|--------------|-------------|----------|-------------------------|---------------------|--------|-----------------|
| Category | SI. No. | Item | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
| Maint. Y1 | 1 | Vacancy infilling including planting in Sal lines against failure of sowing | 500.00 | nos | Labour | 80.00 | 6.00 | 224.58 | 1347.48 |
| Maint. Y1 | 2 | 1st weeding, cleaning, hand cleaning and mulching of Sal lines with application of fertilizer | 0.50 | ha | Labour | 0.06 | 8.00 | 224.58 | 1796.64 |
| Maint. Y1 | 3 | 1st mulching, weeding, cleaning and application of fertilizer for misc. lines and Sal seedlings planted against failure of sowing | 0.50 | ha | Labour | 0.06 | 8.00 | 224.58 | 1796.64 |
| Maint. Y1 | 4 | 2nd weeding and hand cleaning of Sal lines | 0.50 | ha | Labour | 0.07 | 7.00 | 224.58 | 1572.06 |
| Maint. Y2 | 5 | 2nd mulching, weeding, cleaning of misc. lines and Sal seedlings planted against failure of sowing | 0.50 | ha | Labour | 0.08 | 6.00 | 224.58 | 1347.48 |
| Maint. Y3 | 6 | 3rd weeding cleaning for whole plantation area | 0.50 | ha | Labour | 0.08 | 12.00 | 224.58 | 2694.96 |
| Maint. Y4 | 7 | 4th weeding cleaning for whole plantation area | 1.00 | ha | Labour | 0.10 | 10.00 | 224.58 | 2245.80 |
| Maint. Y5 | 8 | Cutting of firelines 3.0m wide | 400.00 | rmt | Labour | 125.00 | 3.00 | 224.58 | 673.74 |
| Maint. Y6 | 9 | Repair of live hedge (ipomea, vitex, thorny spps.) fencing with bamboo/bamboo posts including local carriage of all material | 400.00 | rmt | Labour | 200.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y7 | 10 | Material for live fencing including carriage upto site | LS | | Material | | | LS | 100.00 |
| Maint. Y1 | 11 | Watch & Ward for 12 months | 1.00 | ha | Labour | | 25.00 | 224.58 | 5614.50 |
| Maint. Y1 | 12 | Cost of fertilizer and insecticide including carriage | LS | | Material | | | LS | 1000.00 |
| Maint. Y1 | 13 | Contingency - Labour | | | | | | | 58.00 |
| Maint. Y1 | 14 | Contingency - Material | | | | | | | 50.00 |
| | | Total | | | | | 87.00 | | 20746.00 |

Estimate for Plantation of Sal and Associates Species: A6 Model- Maint. Year 2

| | | <u>Estimate</u> | of A6 2nd Ye | ar Maintena | nce | | | | |
|-----------|---------|--|--------------|-------------|--------|-------------------------|---------------------|--------|-----------------|
| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
| Maint. Y2 | 1 | Vacancy infilling | 250.00 | nos | Labour | 80.00 | 3.00 | 224.58 | 673.74 |
| Maint. Y2 | 2 | 1st weeding, cleaning | 1.00 | ha | Labour | 0.06 | 16.00 | 224.58 | 3593.28 |
| Maint. Y2 | 3 | 2nd weeding, cleaning | 1.00 | ha | Labour | 0.08 | 12.00 | 224.58 | 2694.96 |
| Maint. Y2 | 4 | 3rd weeding, cleaning | 1.00 | ha | Labour | 0.10 | 10.00 | 224.58 | 2245.80 |
| Maint. Y3 | 5 | Cutting and maintenance of firelines 3.0m wide | 500.00 | rmt | | 250.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y2 | 6 | Watch & Ward for 12 months | 1.00 | ha | Labour | | 25.00 | 224.58 | 5614.50 |
| Maint. Y2 | 7 | Contingency - Labour | | | | | | | 62.00 |
| Maint. Y2 | 8 | Contingency - Material | | | | | | | 50.00 |
| | • | Total | | | | | 68.00 | | 15383.00 |

Estimate for Plantation of Sal and Associates Species: A6 Model- Maint. Year 3

| | Estimate of A6 3rd Year Maintenance | | | | | | | | | | | | |
|-----------|-------------------------------------|------------------------|----------|------|--------|-------------------------|---------------------|--------|-----------------|--|--|--|--|
| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) | | | | |
| Maint. Y3 | 1 | 1st weeding, cleaning | 2500 | nos | Labour | 180 | 14 | 224.58 | 3144.12 | | | | |
| Maint. Y3 | 2 | 2nd weeding, cleaning | 2500 | nos | Labour | 100 | 12 | 224.58 | 2694.96 | | | | |
| Maint. Y3 | 3 | Contingency - Labour | | | | | | | 34.00 | | | | |
| Maint. Y3 | 4 | Contingency - Material | | | | | | | 50.00 | | | | |
| | | Tot | al | | | | 26.00 | | 5923.00 | | | | |

Estimate for Plantation of Sal and Associates Species: A6 Model- Maint. Year 4

| | Estimate of A6 4th Year Maintenance | | | | | | | | | | | |
|-----------|-------------------------------------|------------------------|----------|------|--------|-------------------------|---------------------|--------|-----------------|--|--|--|
| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) | | | |
| Maint. Y4 | 1 | 1st weeding, cleaning | 2500 | nos | Labour | 180 | 14 | 224.58 | 3144.12 | | | |
| Maint. Y4 | 2 | Contingency - Labour | | | | | | | 26.00 | | | |
| Maint. Y4 | 3 | Contingency - Material | | | | | | | 50.00 | | | |
| | | Total | | | | | 14.00 | | 3220.00 | | | |

| 1 | Spacing Prescribed as per Working Plan | 2m X 2m |
|---|--|---|
| 2 | Pit size or planting order | (0.40+0.30)/2X0.30X0.30m ³ |
| 3 | Species | The Sal forest had a mixture of Chilaune (Schima wallichii), Toon (Toona ciliata), Lampate (Duabanga grandiflora), Moina (Tetrameles nudiflora) Chiloune (Schima wallichii), Chikrasi (Chukrassia tabularis), Champ (Michelia champaca) and Simul (Bombax ceiba). |
| 4 | No of seedlings to be planted per Ha | 2500 |
| | Planting Pattern | 1.1^{st} line – 24^{th} Teak line: Stumps planting of Teak at 2m X 2m spacing with bamboo in central Teak line 8m apart |
| | | 2. 25 th – 32 nd line: Lahasune, Panisaj, Gokul and Sidha in alternate strips of 27m long. |
| 5 | | 3. 33 rd -40 th line: Lali, Kanchan, Lampatey and Gamar in alternate strip of 27m long with Simul or Kainjal in central line 27m apart. |
| | | 4. 41 st – 48 th line: Champ, Chiloune, Chikrasi and Bahera/Amloki in alternate strip of 27m long. |

| Category | Sl. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
|----------|---------|---|----------|------|----------|-------------------------|---------------------|--------|-----------------|
| Advance | 1 | Survey and demarcation of the plantation area including GPS Survey by Technical person | 1.00 | ha | Labour | 1.00 | 1.00 | 224.58 | 224.58 |
| Advance | 2 | Alignment of planting lines and staking the pit positions | 2500.00 | nos | Labour | 1600.00 | 1.50 | 224.58 | 336.87 |
| Advance | 3 | Advance Soil works by digging planting pits of size (0.40+0.30)/2 x 0.30 x0.30 m3 at 2.0.x 2.0 m spacing (2500 nos) | 2500.00 | nos | Labour | 125.00 | 20.00 | 224.58 | 4491.60 |
| Advance | 4 | Cleaning of the pltn site and making inspection path | 1.00 | ha | Labour | 0.05 | 20.00 | 224.58 | 4491.60 |
| | 5 | Preplanting cleaning of plantation area | 1.00 | ha | Labour | 0.16 | 6.00 | 224.58 | 1347.48 |
| Creation | 6 | Carriage of Seedlings from Central Nursery to Planting site including loading and unloading and return of Stand and Root Trainers to Central Nursery | 2500.00 | nos | Material | | | LS | 1500.00 |
| Creation | 7 | Transplanting of potted seedlings in pits, including filling up of planting pits with dug up pulverized soil, carriage of Root Trainers to planting site and collection and recarriage of Root Trainers to local store site | 2500.00 | nos | Labour | 125.00 | 20.00 | 224.58 | 4491.60 |
| Creation | 8 | Vacancy infilling | 250.00 | nos | Labour | 60.00 | 4.00 | 224.58 | 898.32 |
| Creation | 9 | 1st mulching, weeding, cleaning and application of fertilizer | 2500.00 | nos | Labour | 180.00 | 14.00 | 224.58 | 3144.12 |
| Creation | 10 | 2nd mulching, weeding, cleaning and application of fertilizer | 2500.00 | nos | Labour | 215.00 | 12.00 | 224.58 | 2694.96 |
| Creation | 11 | 3rd cleaning, weeding | 2500.00 | nos | Labour | 250.00 | 10.00 | 224.58 | 2245.80 |
| | 12 | 4th cleaning, weeding | 2500.00 | | Labour | 250.00 | 10.00 | 224.58 | 2245.80 |
| Creation | 13 | Cutting firelines 3.0 m wide | 500.00 | rmt | Labour | 125.00 | 4.00 | 224.58 | 898.32 |
| Creation | 14 | Material for live fencing including carriage upto site | LS | | Material | | | LS | 1200.00 |
| Creation | 15 | Erection of live hedge (ipomea, vitex, thorny spps.) fencing with bamboo/bamboo posts including local carriage of all material | 400.00 | rmt | Labour | 100.00 | 4.00 | 224.58 | 898.32 |
| Creation | 16 | Carriage of fertiliser, insecticide etc. | LS | | Material | | | LS | 250.00 |
| Creation | 17 | Cost of fertilizer, insecticides etc. | LS | | Material | | | LS | 1500.00 |
| Creation | 18 | Watch & Ward (1 md per 10 ha) for 6 months | LS | | Labour | | 18.00 | 224.58 | 4042.44 |
| Advance | 19 | Contingencies - Labour | LS | | Labour | | | LS | 120.00 |
| Advance | 20 | Contingencies - Material | LS | | Material | | | LS | 200.00 |
| Creation | 21 | Contingencies - Labour | LS | | Labour | | | LS | 118.00 |
| Creation | 22 | Contingencies - Material | LS | | Material | | | LS | 200.00 |
| | | Total | | | | | 144.50 | | 37540.00 |

Estimate for Miscellaneous Plantation in North Bengal : Maint. Year 1

| Category | SI. No. | Item | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
|-----------|---------|--|----------|------|----------|-------------------------|---------------------|--------|-----------------|
| Maint. Y1 | 1 | Vacancy infilling | 250 | nos | Labour | 125 | 2 | 224.58 | 449.16 |
| Maint. Y1 | 2 | 1st weeding, cleaning, mulching, with application of fertilizer | 2500 | nos | Labour | 155 | 16 | 224.58 | 3593.28 |
| Maint. Y1 | 3 | 2nd weeding, cleaning, mulching | 2500 | nos | Labour | 180 | 14 | 224.58 | 3144.12 |
| Maint. Y1 | 4 | 3rd weeding, cleaning | 2500 | nos | Labour | 250 | 10 | 224.58 | 2245.80 |
| Maint. Y1 | 5 | Cutting of firelines 3.0 m wide | 500 | rmt | Labour | 125 | 4 | 224.58 | 898.32 |
| Maint. Y1 | 6 | Material for repair of live fencing including carriage upto site | LS | | Material | | | LS | 100.00 |
| Maint. Y1 | 7 | Watch & Ward for 12 months | 1 | На | Labour | | 25 | 224.58 | 5614.50 |
| Maint. Y1 | 8 | Cost of fertilizer and insecticide etc. including carriage | LS | | Material | | | LS | 600.00 |
| Maint. Y1 | 9 | Contingency - Labour | | | | | | | 14.00 |
| Maint. Y1 | 10 | Contingency - Material | | | | | | | 150.00 |
| | | Total | | | | | 71 | | 16809.00 |

Estimate for Miscellaneous Plantation in North Bengal: Plains - Maint. Year 2

| Category | SI. No. | Item | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
|-----------|---------|----------------------------|----------|------|--------|-------------------------|---------------------|--------|-----------------|
| Maint. Y2 | 1 | Vacancy infilling | 250 | nos | Labour | 80 | 2 | 224.58 | 449.16 |
| Maint. Y2 | 2 | 1st weeding, cleaning | 2500 | nos | Labour | 160 | 16 | 224.58 | 3593.28 |
| Maint. Y2 | 3 | 2nd weeding, cleaning | 2500 | nos | Labour | 200 | 12 | 224.58 | 2694.96 |
| Maint. Y2 | 4 | 3rd weeding, cleaning | 2500 | nos | Labour | 250 | 10 | 224.58 | 2245.80 |
| Maint. Y2 | 5 | Watch & Ward for 12 months | 1 | На | Labour | | 25 | 224.58 | 5614.50 |
| Maint. Y2 | 6 | Contingency - Labour | | | | | | | 10.00 |
| Maint. Y2 | 7 | Contingency - Material | | | | | | | 50.00 |
| | | Total | | | | | 65 | | 14658.00 |

Estimate for Miscellaneous Plantation in North Bengal: Plains - Maint. Year 3

| Category | SI. No. | Item | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
|-----------|---------|------------------------|----------|------|--------|-------------------------|---------------------|--------|-----------------|
| Maint. Y3 | 1 | 1st weeding, cleaning | 2500 | nos | Labour | 180 | 14 | 224.58 | 3144.12 |
| Maint. Y3 | 2 | 2nd weeding, cleaning | 2500 | nos | Labour | 100 | 12 | 224.58 | 2694.96 |
| Maint. Y3 | 3 | Contingency - Labour | | | | | | | 34.00 |
| Maint. Y3 | 4 | Contingency - Material | | | | | | | 50.00 |
| | | Total | | | | | 26.00 | | 5923.00 |

Estimate for Miscellaneous Plantation in North Bengal : Plains - Maint. Year 4

| Category | SI. No. | ltem | Quantity | Unit | Type | Output per manday | Required Mandays | Rate | Amount (Rs.) |
|-----------|---------|------------------------|----------|------|--------|-------------------------|---------------------|--------|-----------------|
| Maint. Y4 | 1 | 1st weeding, cleaning | 2500 | nos | Labour | 180 | 14 | 224.58 | 3144.12 |
| Maint. Y4 | 2 | Contingency - Labour | | | | | | | 26.00 |
| Maint. Y4 | 3 | Contingency - Material | | | | | | | 50.00 |
| | | Total | | | | | 14.00 | | 3220.00 |

| 1 | Spacing Prescribed as per Working Plan | 7m X 7m |
|---|--|---|
| 2 | Pit size or planting order | Pit |
| 3 | Species | Choya bans (Dendrocalamus hamiltonii) occur in the foot hill forests of Rethi forest of this Division. In addition various other types of bamboo e.g. Makla bans (Bambusa nutans), Betua bans (Bambusa polymorpha), Barabans (Bambusa gigantia) and Muli bans (Malocana bambusoides |
| 4 | No of seedlings to be planted per Ha | |
| 5 | Planting Pattern | i.Only mature culms may be felled. (The colour of a mature culm is uniform throughout and it can also be recognized by the absence of its sheaths. An immature culm is covered with mealy powder all over it). |
| | | ii. Bamboo should be cut at least two nodes above the ground so as to prevent the rhizomes from drying up. |
| | | iii. Congestion in the clumps shall be removed by cutting across the middle of the clumps so that the mature bamboo from the center may be extracted. Usually the outer culms are young. |
| | | iv. The exploitation shall proceed systematically from one end of a block. |
| | | v. Sufficient number of culms should be retained in each clump. |
| | | vi. Tops and branches of cut bamboo shall be removed from the clumps. |
| | | vii.Every clump of bamboo shall be given a three years period of rest after each felling. |
| | | viii. As far as practicable earth may be put in the bamboo clumps to cover up the roots and rhizomes in March. |
| | | ix. Planting of bamboo may be undertaken in the forests and in plantations. |
| | | |

| | | Estimate of Bamboo underpla | nting | | | |
|------------|------------|---|----------|---------------------|--------|-----------------|
| Category | SI. No. | ltem | Туре | Required Mandays | Rate | Amount (Rs.) |
| Advance | 1 | Preparation of nursery beds | Labour | 6 | 224.58 | 1,347.48 |
| Advance | 2 | Collection of bamboo offsets and planting in mother beds | Labour | 8 | 224.58 | 1,796.64 |
| Advance | 3 | Cost of bamboo offsets | Material | | LS | 2,800.00 |
| Advance | 4 | Shifting of culms to other beds | Labour | 10 | 224.58 | 2,245.80 |
| Advance | 5 | Making of sheds for beds (cost of covering with thatch) | Labour | 2 | 224.58 | 449.16 |
| Advance | 6 | Material for making temporary sheds | Material | | LS | 600.00 |
| Advance | 7 | Weeding / cleaning of beds | Labour | 8 | 224.58 | 1,796.64 |
| Advance | 8 | Watering of beds | Labour | 9 | 224.58 | 2,021.22 |
| Advance | 9 | Manuring / application of organic pesticide / fungicides | Labour | 4 | 224.58 | 898.32 |
| Advance | 10 | Cost of Manure / organic pesticide / fungicides | Material | | LS | 1,000.00 |
| Advance | 11 | Cost of implements like measuring tape, ropes, axe, lime | Material | | LS | 600.00 |
| Advance | 12 | Labour for power fencing (with existing energizer) of Nursery | Labour | 2 | 224.58 | 449.16 |
| Advance | 13 | Materials for Power fencing of Nursery | Material | | LS | 1,500.00 |
| Creation | 14 | Survey and demarcation of area including alignment of lines | Labour | 4 | 224.58 | 898.32 |
| Creation | 15 | Cleaning and control burning of the area | Labour | 12 | 224.58 | 2,694.96 |
| Creation | | Collection of bamboo seedling from nursery | Labour | 10 | 224.58 | 2,245.80 |
| Creation | | Transportation of bamboo seedling from nursery | Material | | LS | 2,000.00 |
| Creation | 18 | Digging of pits, manuring and planting bamboo seedlings | Labour | 25 | 224.58 | 5,614.50 |
| Creation | 19 | Gap filling and three times weed cleaning and mulching | Labour | 50 | 224.58 | 11,229.00 |
| Creation | 20 | Watching the plantation against grazing and applying fertiliser | Labour | 16 | 224.58 | 3,593.28 |
| Creation | 21 | Energised fence | Material | | LS | 20,000.00 |
| Creation | 22 | Removal of woody weeds and climbers and energised fencing | Labour | 30 | 224.58 | 6,737.40 |
| Maint Yr 1 | 23 | Cleaning of weeds two times and gap filling | Labour | 40 | 224.58 | 8,983.20 |
| Maint Yr 1 | 24 | Watching the plantation against grazing and other damage | Labour | 10 | 224.58 | 2,245.80 |
| Maint Yr 1 | 25 | Supply of misc. items | Material | | LS | 1,000.00 |
| Maint Yr 2 | 26 | Cleaning of weeds two times and gap filling | Labour | 20 | 224.58 | 4,491.60 |
| Maint Yr 2 | 27 | Watching the plantation against and other damage | Labour | 10 | 224.58 | 2,245.80 |
| Maint Yr 2 | 28 | Supply of misc. items | Material | | LS | 400 |
| Advance | 29 | Contingencies -Labour | Labour | | LS | 16 |
| Advance | 30 | Contingencies- Material | Labour | | LS | 100 |
| Creation | 31 | Contingencies- Labour | Labour | | LS | 48 |
| Creation | 32 | Contingencies- Material | Labour | | LS | 100 |
| Maint Yr 1 | 33 | Contingencies- Labour | Labour | | LS | 50 |
| Maint Yr 1 | 34 | Contingencies- Material | Labour | | LS | 50 |
| Maint Yr 2 | 35 | Contingencies- Labour | Labour | | LS | 20 |
| Maint Yr 2 | 36 | Contingencies- Material | Labour | | LS | 100 |
| | | Total | | 276 | 92,36 | 8.00 |

NORTH BENGAL GRASS & FODDER PLTN

| Δ | rea | = | 1 | ha |
|---|-----|---|---|----|
| | | | | |

| Category | SI | ltem | Туре | Required | Rate | Amount (Rs.) |
|------------------------|------------|--|---------------------------------------|--------------|------------------|----------------------|
| Advance | No. | Prepartion of mother beds | Labour | Mandays 6 | 224.58 | 1,347.48 |
| Advance | | Collection of grass seeds / slips & processing | Labour | 8 | 224.58 | 1,796.64 |
| Advance | | shifting of slips to different beds | Labour | 5 | 224.58 | 1,122.90 |
| | | , | | | | • |
| Advance | 4 | Making of sheds for beds (cost of covering with thatch) | Labour | 2 | 224.58 | 449.16 |
| Advance | 5 | Material for making temporary sheds | Material | | LS | 600.00 |
| Advance | 6 | Weeding / cleaning of beds | Labour | 8 | 224.58 | 1,796.64 |
| Advance | 7 | Watering of beds | Labour | 9 | 224.58 | 2,021.22 |
| | | | | | | |
| Advance | | Manuring / application of organic pesticide / fungicides | Labour | 4 | 224.58 | 898.32 |
| Advance | 9 | Cost of Manure / Organic pesticide / fungicides | Material | | LS | 500.00 |
| Advance | 10 | Cost of implements like measuring tape, ropes, axe, lime powder, sickle spade etc. | Material | | LS | 600.00 |
| Advance | 10 | Labour for Power fencing (with existing energizer) of | iviateriai | | LJ | 000.00 |
| Advance | 11 | Nursery | Labour | 2 | 224.58 | 449.16 |
| Advance | 12 | Materials for Power fencing of Nursery | Material | | LS | 1,500.00 |
| | | Survey and demarcation of area of plantation including | | | | |
| Creation | 13 | alignment of lines | Labour | 4 | 224.58 | 898.32 |
| Creation | 14 | Cleaning and control burning of the area | Labour | 12 | 224.58 | 2,694.96 |
| Creation | 15 | Collection of grass slips and seedlings from nursery | Labour | 5 | 224.58 | 1,122.90 |
| Creation | 16 | Transportation of grass slips and seedlings from nursery | Material | | LS | 500.00 |
| 0.000.0 | | Digging of trenches and pits and planting of grass slips | · · · · · · · · · · · · · · · · · · · | | | 300.00 |
| Creation | 17 | and seedlings | Labour | 30 | 224.58 | 6,737.40 |
| Creation | 18 | Gap filling and three times weeding cleaning | Labour | 50 | 224.58 | 11,229.00 |
| | | Watching the plantation against grazing and applying | | | | |
| Creation | 19 | fertiliser | Labour | 16 | 224.58 | 3,593.28 |
| Creation | 20 | Energised fence | Material | | LS | 20,000.00 |
| Creation | 21 | Removal of woody weeds and climbers from energised | Labour | 20 | 224 50 | 6 727 40 |
| Creation Maint Yr 1 | | fencing Cleaning of weeds two times and gap filling | Labour Labour | 30 40 | 224.58 224.58 | 6,737.40 8,983.20 |
| IVIAIIIL II I | 22 | Watching the plantation against grazing and other | Labout | 40 | 224.36 | 8,983.20 |
| Maint Yr 1 | 23 | damage | Labour | 10 | 224.58 | 2,245.80 |
| Maint Yr 1 | 24 | Supply of misc. items | Material | | LS | 1,000.00 |
| Maint Yr 2 | 25 | Cleaning of weeds two times and gap filling. | Labour | 20 | 224.58 | 4,491.60 |
| | | Watching the plantation against grazing and other | | | | |
| Maint Yr 2 | | damage | Labour | 10 | 224.58 | 2,245.80 |
| Maint Yr 2 | | Supply of misc. items | Material | | LS | 400.00 |
| Advance | _ | Contingencies- Labour | | | LS | 46.00 |
| Advance | | Contingencies- Material | | | LS | 50.00 |
| Creation | | Contingencies- Labour | | | LS | 48.00 |
| Creation | | Contingencies- Material | | | LS | 100.00 |
| Maint Yr 1 | | Contingencies- Labour | | | LS | 50.00 |
| Maint Yr 1 | | Contingencies- Material | | | LS | 50.00 |
| Maint Yr 2 | | Contingencies- Labour | | | LS | 20.00 |
| Maint Yr 2 | 35 | Contingencies- Material | | 274 | LS | 100.00 |
| | | | | 271 | | 86,425.00 |

NORTH BENGAL HILLS REMOVAL OF MALING BAMBOO

| Area | = 1 | ha |
|------|-----|----|
|------|-----|----|

| | | | | | ı | | | Area = 1 na | ì |
|----------|------------|--|----------|------|----------|----------------------|---------------------|-------------|-------------|
| Category | SI. No. | Item | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs) |
| | | Survey and demarcation of the plantation area including | | | | | | | |
| Advance | | GPS Survey by Technical person | 1.00 | ha | Labour | 0.5 | 2.00 | 224.58 | 449.16 |
| ravance | | Crosure, by recimical person | 1.00 | 110 | Eubou. | 0.5 | 2.00 | 22 1130 | . 15110 |
| Advance | 2 | Alignment of planting lines and staking the pit positions | 1,600.00 | nos | Labour | 1,000.00 | 1.50 | 224.58 | 336.87 |
| | | (0.40+0.30)/2 X 0.30X0.30 m3 at 2.5 X 2.5 m spacing | | | | | | | |
| Advance | 3 | (1600 nos) | 1,600.00 | nos | Labour | 80 | 20.00 | 224.58 | 4491.6 |
| Advance | 4 | Cleaning of the pltn site and making inspection path | 1.00 | ha | Labour | 0.02 | 50.00 | 224.58 | 11229 |
| Creation | 5 | Preplanting cleaning of plantation area | 1.00 | ha | Labour | 0.1 | 10.00 | 224.58 | 2245.8 |
| | | Carriage of Seedlings from Central Nursery to Planting site including loading and unloading and return of Stand | | | | | | | |
| Creation | 6 | and Root Trainers to Central Nursery | 1,600.00 | nos | Material | | | LS | 1,200.00 |
| Creation | | Transplanting of potted seedlings in pits, including filling up of planting pits with dug up pulverized soil, carriage of Root Trainiers to planting site and collection and recarriage of Root Trainers to local store site. | 1,600.00 | nos | Labour | 80 | 20.00 | 224.58 | 4491.6 |
| Creation | | Vacancy infilling | 160.00 | | Labour | 40 | 4.00 | 224.58 | 898.32 |
| Creation | 9 | 1st mulching, weeding, cleaning and application of fertilizer | 1.00 | | Labour | 0.05 | 20.00 | 224.58 | |
| Creation | | 2nd mulching, weeding, cleaning and application of fertilizer | 1.00 | ha | Labour | 0.06 | 16.00 | 224.58 | 3593.28 |
| Creation | | 3rd cleaning, weeding | 1.00 | | Labour | 0.00 | 14.00 | | 3144.12 |
| Creation | | Carriage of fertiliser, insecticide etc. | LS 1.00 | IIa | Material | 0.07 | 14.00 | LS | 250 |
| Creation | | Cost of fertilizer, insecticides etc. | LS | | Material | | | LS | 1,200.00 |
| Creation | | Watch & Ward (1 md per 10 ha) for 6 months | LS | | Labour | | 18.00 | | , |
| Advance | | Contingencies- Labour | LS | | Labour | | 10.00 | LS | 124 |
| Advance | | Contingencies- Material | LS | | Material | | | LS | 100 |
| Creation | | Contingencies - Labour | LS | | Labour | | | LS | 118 |
| Creation | | Contingencies - Material | LS | | Material | | | LS | 100 |
| | | Total | - | | | | 175.50 | - | 42,505.00 |

| | | Estimate of Plantation after removal of | Maling bar | mboo- 1 | st Year Ma | intenance (for | Hill area) | | |
|-----------|-----------|--|------------|---------|------------|----------------------|---------------------|--------|--------------|
| Category | SI No. | Item | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
| Maint. Y1 | 1 | Vacancy infilling | 160 | nos | Labour | 80 | 2 | 224.58 | 449.16 |
| | | 1st weeding, cleaning, mulching with application of | | | | | | | |
| Maint. Y1 | 2 | fertilizer | 1 | ha | Labour | 0.04 | 25 | 224.58 | 5614.5 |
| Maint. Y1 | 3 | 2nd weeding, cleaning | 1 | ha | Labour | 0.06 | 16 | 224.58 | 3593.28 |
| Maint. Y1 | | 3rd weeding, cleaning | | ha | Labour | 0.07 | 14 | 224.58 | 3144.12 |
| | | Cost of fertilizer and insecticide etc. including carriage & | | | | | | | |
| Maint. Y1 | 5 | application | LS | | Material | | | LS | 600.00 |
| Maint. Y1 | 6 | Watch & Ward for 12 months | 1 | На | Labour | | 20 | 224.58 | 4491.6 |
| Maint. Y1 | 7 | Contingency- Labour | | | | | | | 68.00 |
| Maint. Y1 | 8 | Contingency-Material | | | | | | | 100.00 |
| | | Total | | | | | 77 | | 18,061.00 |

| | | Estimate of Plantation after removal of I | Mailing bar | nboo - 2 | 2nd Year Ma | aintenance (for | Hill area) | | |
|-----------|-----------|--|-------------|----------|-------------|-----------------|---------------------|--------|--------------|
| Category | SI No. | Item | Quantity | Unit | Туре | | Required Mandays | Rate | Amount (Rs.) |
| Maint. Y2 | 1 | Vacancy infilling | 160 | nos | Labour | 80 | 2 | 224.58 | 449.16 |
| | | 1st weeding, cleaning, mulching, with application of | | | | | | | |
| Maint. Y2 | 2 | fertilizer | 1 | ha | Labour | 0.05 | 20 | 224.58 | 4491.6 |
| Maint. Y2 | 3 | 2nd weeding, cleaning | 1 | ha | Labour | 0.07 | 14 | 224.58 | 3144.12 |
| Maint. Y2 | 4 | Cost of fertilizer and insecticide etc. including carriage | LS | | Material | | | LS | 600 |
| Maint. Y2 | 5 | Watch & Ward for 12 months | 1 | На | Labour | | 20 | 224.58 | 4491.6 |
| Maint. Y2 | 6 | Contigency- Labour | | | | | | | 54 |
| Maint. Y2 | 7 | Contigency- Material | | | | | | | 50 |
| | | Total | | | | | 56 | | 13280.00 |

| Estimate of Plantation after removal of Mailing bamboo - 3rd Year Maintenance (for Hill area) | | | | | | | | | | | | |
|---|------------|-----------------------|----------|------|--------|------|---------------------|--------|--------------|--|--|--|
| Category | SI. No. | ltem | Quantity | Unit | Туре | | Required Mandays | Rate | Amount (Rs.) | | | |
| Maint. Y3 | 1 | 1st weeding, cleaning | 1 | ha | Labour | 0.05 | 20 | 224.58 | 4,491.60 | | | |
| Maint. Y3 | 2 | 2nd weeding, cleaning | 1 | ha | Labour | 0.07 | 14 | 224.58 | 3,144.12 | | | |
| Maint. Y3 | 3 | Contingency-Labour | | | | | | | 6 | | | |
| Maint. Y3 | 4 | Contingency-Material | | | | | | | 50 | | | |
| | | Total | | | | | 34 | | 7,692.00 | | | |

126 Estimate for Creation of Misc. Pltn. for North Bengal & Hills

Type of Pltn. : Miscllenious Plantation Creation of Plantation over 1.0 ha

Labour rate Rs. 224.58/-

(Unit 1.0 ha area)

| SI. | Particulars of Work | No.of MD | Mat.in | Rate in | Amount in | | | | | |
|-----|--|-------------|--------|---------|-----------|--|--|--|--|--|
| No. | Particulars of Work | טועו וט.טאו | unit | Rs. | Rs. | | | | | |
| Α | Creation Work. | | | | | | | | | |
| 1 | Pricking out seedlings from mother bed. | 3 | | 224.58 | 673.74 | | | | | |
| 2 | Weeding & cleaning by 3 times. | 2 | | 224.58 | 449.16 | | | | | |
| 3 | Sorting, shifting of seedlings for 3 times. | 4 | | 224.58 | 898.32 | | | | | |
| 4 | Watering seedlings in nursery. | 6 | | 224.58 | 780.00 | | | | | |
| 5 | Cleaning & cutting jungles in plantation site/sites. | 5 | | 224.58 | 1122.90 | | | | | |
| 6 | Digging planting pits of size $(0.6+0.45)/2m \times 0.45m \times 0.45m i.e.1600 pits/ha$ | 32 | | 224.58 | 7186.56 | | | | | |
| 7 | Filling planting pits by core manuring. | 14 | | 224.58 | 3144.12 | | | | | |
| 8 | Transplanting seedlings including carriage upto pltn.site. | 18 | | 224.58 | 4042.44 | | | | | |
| 9 | Vacancy filling, including application of insecticides. | 4 | | 224.58 | 898.32 | | | | | |
| 10 | Weeding, cleaning & application of manures :- | | | | | | | | | |
| a) | 1st time. | 15 | | 224.58 | 3368.70 | | | | | |
| b) | 2nd time. | 11 | | 224.58 | 2470.38 | | | | | |
| 11 | Creation of fireline. | 6 | _ | 224.58 | 1347.48 | | | | | |
| 12 | Cost of insecticides.fertilizer and hormone | | L.S. | | 5619.02 | | | | | |
| | TOTAL (1.0 ha) | 120 | | | 32001.00 | | | | | |

(Rupees thirty two thousand only)

| SI | Item of Work | Quantity | Unit | Rate | Amount | |
|-------|---|----------|------|--------|---------|--|
| No | | | | | (Rs.) | |
| 1 | Weeding, cleaning and cutting of climber for the 1^{st} t time | 15 | DL | 224.58 | 3368.7 | |
| 2 | Weeding, cleaning and cutting of climber for the 2^{nd} time | 13 | DL | 224.58 | 2919.54 | |
| 3 | Weeding, cleaning and cutting of climber for the 3^{rd} time | 11 | DL | 224.58 | 2470.38 | |
| 4 | Weeding, cleaning and cutting of climber for the 4th time | 10 | DL | 224.58 | 2245.8 | |
| 5 | Beating up including carriage of seedlings | 8 | DL | 224.58 | 1796.64 | |
| 6 | Creation & maintenance of fire line | 4 | DL | 224.58 | 898.32 | |
| 7 | Contingencies | LS | | | 301.23 | |
| | | | | | | |
| TOTAL | | | | | | |

Estimate for 2nd Year Maintenance of Sal plantation (per Ha) in North Bengal

| SI No | Item of Work | Quantity | Unit | Rate | Amount (Rs.) | |
|----------|---|----------|------|--------|-----------------|--|
| 1 | Weeding, cleaning and cutting of climber for the 1 st t time | 15 | DL | 224.58 | 3368.7 | |
| 2 | Weeding, cleaning and cutting of climber for the 2^{nd} time | 13 | DL | 224.58 | 2919.54 | |
| 3 | Weeding, cleaning and cutting of climber for the 3^{rd} time | 11 | DL | 224.58 | 2470.38 | |
| 4 | Creation and maintenance of fireline | 4 | DL | 224.58 | 898.32 | |
| 5 | Contingencies | LS | | | 343.49 | |
| | | | | | | |
| TOTAL | | | | | | |

Estimate for 3rd Year Maintenance of Sal plantation (per Ha) in North Bengal

| SI No | Item of Work | Quantity | Unit | Rate | Amount (Rs.) |
|----------|---|----------|------|--------|-----------------|
| 1 | Weeding, cleaning and cutting of climber for the 1^{st} t time | 13 | DL | 224.58 | 2919.54 |
| 2 | Weeding, cleaning and cutting of climber for the 2^{nd} time | 11 | DL | 224.58 | 2470.38 |
| 3 | Creation & maintenance of fire line | 2 | DL | 224.58 | 449.16 |
| 4 | Contingencies | LS | | | 161.18 |
| TOTAL | | | | | |

Estimate for 4th Year Maintenance of Sal plantation (per Ha) in North Bengal

| l No | Item of Work | Quantity | Unit | Rate | Amount (Rs.) | |
|---------|---|----------|------|--------|-----------------|--|
| 1 | Weeding, cleaning and cutting of climber for the 1^{st} t time | 13 | DL | 224.58 | 2919.54 | |
| 2 | Creation & maintenance of fire line | 4 | DL | 224.58 | 898.32 | |
| 3 | Contingencies | LS | | | 182.31 | |
| | | | | | | |
| TOTAL | | | | | | |

NORTH BENGAL STRIP PLANTATIONS

| 1 | Spacing Prescribed as per Working Plan | As per working plan |
|---|--|--|
| 2 | Pit size or planting order | As per working plan |
| 3 | Species | As per working plan |
| 4 | No of seedlings to be planted per Ha | As per working plan |
| 5 | Planting Pattern | Species listed in CITES listed and Negative listed shall not be allowed to be extracted from the forest area. However, the Divisional forest Officer shall try to promote the ex-situ conservation of these species outside forest areas in order to sensitize the local population about the benefits and marketing opportunities of NTFP species. Information and strategies for other NTFP and medicinal plants shall be developed over a period of time involving local people and the drug industries if possible by the Divisional Forest Officer for Ex-Situ conservation. The following points needs to be considered for ex-situ conservation of the NTFPs. |
| | | Plant genetic resource management (Germplasm collection, characterization and evaluation) of priority species needs to be developed by the research wing. |
| | | $2. \ Herbal garden \ with genetic \ diversity for \ conservation \ and \ need \ based \ use \ shall \ be \ developed \ during \ the \ Plan.$ |
| | | 3. Domestication and cultivation of NTFP species shall be promoted by offering technical and material inputs to the farmers/villagers. |

Estimate for Advance Work for Strip plantation - Advance work 1.0 ha

| SI. | Description | Unit | Quantity | Rate (Rs.) | Amount (Rs.) |
|-----|---|----------------|----------|-------------|---------------|
| (1) | (2) | (3) | (5) | (4) | (6) |
| 1) | Laying out area for nursery & cleaning | md | 7 | 224.58 | Rs. 1,572.06 |
| 2) | Preparation of Mother bed with good earth & cow dung | | | | |
| | manure. | md | 6 | 224.58 | Rs. 1,347.48 |
| 3) | Preparation of poly pot bed with bamboo structure for | | | | |
| | making shade . | md | 10 | 224.58 | Rs. 2,245.80 |
| 4) | Cost of filling poly pot mixing with good earth & cow dung | | | | |
| | | md | 12 | 224.58 | Rs. 2,694.96 |
| 5) | Pricking out seedlings from mother bed and planting to poly | | | | |
| | pot bed. | md | 7 | 224.58 | Rs. 1,572.06 |
| 6) | Supply of Good earth | m ³ | 1.0 | 200.00 | Rs. 200.00 |
| 7) | Supply of cow dung | m³ | 1.0 | 311.00 | Rs. 311.00 |
| 8) | Supply of poly pot | LS | | 400.00 | Rs. 400.00 |
| 9) | Supply misc article bamboo, tin etc. | LS | | 500.00 | Rs. 500.00 |
| 10) | Watering of mother bed and tube bed up to 31st March | | | | |
| | | md | 12 | 224.58 | Rs. 2,694.96 |
| 11) | Contingency | LS | | 1,562.00 | Rs. 1,562.00 |
| | | | | Grand Total | Rs. 15,100.00 |

NORTH BENGAL STRIP PLANTATIONS - Creation

| SI No, | Item of Work | Q.nty. / Volume / mandays | Rate (in Rs.) | Amount (Rs.) |
|--------|---|---------------------------|---------------|--------------|
| | | | | |
| 1 | Survey & demarcation of the plantaiton area and making | 7 md | | 1,572.06 |
| | regeneration map thereof. | 7 mu | 224.58 | 1,372.00 |
| 2 | Through cleaning & burning of the area by cutting & | 28 md | | 6,288.24 |
| 2 | removing debris | 28 1110 | 224.58 | 0,288.24 |
| 3 | Alignment & stacking of pits | 10 md | 224.58 | 2,245.80 |
| 4 | Pit cutting of size : | 20 md | | 4,491.60 |
| 4 | (60+45)/2 x 45 cm x 45 cm | 20 ma | 224.58 | 4,491.60 |
| 5 | Carriage of potted seedlings from nursery up to the site by | 14 md | | 2 1 1 1 1 2 |
| 5 | man carriage | 14 ma | 224.58 | 3,144.12 |
| 6 | Transplanting potted seedlings | 23 md | 224.58 | 5,165.34 |
| 7 | Application of insecticides | 2 md | 224.58 | 449.16 |
| 8 | Infilling of vacancy withPotted seedlings | 2 md | 224.58 | 449.16 |
| 9 | 1st cleaning, cutting jungles/ bushes | 20 md | 224.58 | 4,491.60 |
| 10 | 2nd cleaning & mulching with fertilizers | 14 md | 224.58 | 3,144.12 |
| 11 | 3rd cleaning by cutting jungles/ bushes etc | 12 md | 224.58 | 2,694.96 |
| 12 | 4th cleaning by cutting jungles, bushes etc. | 10 md | 224.58 | 2,245.80 |
| 13 | Supply of fertilizer / manure | LS | | 2,174.00 |
| 4.4 | Watch & ward for protection of Plantation by engaging | CO I | | 12.171.00 |
| 14 | mazdoor from Aug. to March | 60 md | 224.58 | 13,474.80 |
| 15 | Cost of making display / Sign board | LS | | 970.00 |
| | Total | | | 53,001.00 |

131 HILLS SAL PLTN

| 1 | Spacing Prescribed as per Working Plan | 2mx2m |
|---|--|---|
| 2 | Pit Size /Planting Model | (40+37.5)X37.5X37.5 trench |
| 3 | Species | Sal, Champ, panisaj, Chilaune, Chikrase, Teak, Tun, Jarul, etc. |
| | No of seedlings to be planted per Ha | 2500 |
| 5 | Planting Pattern | 1.Cleaning plantation area 40% broad leaves and cleaning sal |
| | | area(chichiling of sal-line, break,removing debris etc. for |
| | | preparing sal line sowing bed by hoeing. |
| | | 2. Aligment making of inspection path. |
| | | 3.Staking of planting pits with alignment and collection of stakes. |
| | | 4.Digging of planting hoeing sal line breaking clods pits over size (40+37.5)X37.5X37.5 |
| | | 5.Carriage of seedlings. |
| | | 28 |
| | | 7.cleaning weeding 1st time(3rd week of planting). |
| | | 8.Infilling vacancies. |
| | | 9.Cleaning weeding 2nd time. |
| | | 10.Cleaning weeding 3rd time. |
| | | Method of Regeneration: |
| | | No clear felling shall be undertake If the area so clear-felled |
| | | cannot be restocked during the rains. |
| | | Clear-felling areas shall be cleared and burning of debris |
| | | completed before 15th of March each year. |
| | | 3. The area clear-felled shall be artificially regenerated by |
| | | sowing, planting or stumping according to species used. |
| | | 4. The plantations should be raised with agricultural cropsand |
| | | two successiveyears' cultivation by the forest villagersshould be |
| | | Insisted upon. |
| | | Planting pattern method:as per working plan(staggered/parallel) |
| | | |

Estimate for Creation of Sal Plantation along with Braod Leaf (6 line sal 4 line broad leaf spacing 2m x 2m)

| Sl.No. | | Particulars of work | | Unit | Rate | Amount (Rs.) |
|--------|----------|--|----|------|--------|--------------|
| | | | | | | |
| Α | Nursery | Maintenance before planting seedlings | | | | |
| | 1 | Shorting shifting of tubes (Nursery) 3 times | Md | 3 | 224.58 | 673.74 |
| | 2 | Weeding cleaning 3 times | Md | 3 | 224.58 | 673.74 |
| | 3 | Watering over Nursery seedling (April to July) 2 times/ day | md | 8 | 224.58 | 1,796.64 |
| | 4 | Contengency | | | | 30.00 |
| | | Total A | | | | 3,174.12 |
| В | Plantati | on creation works | | | | |
| | 1 | Cleaning Plantation area 40% broad leaves & cleaning sal area (chichilling of sal line, break, removing debris etc for preparing sal line sowing bed by hoeing | | | | |
| | | (100mt x 6 lines x 0.75 x 10 block = 0.45 ha) | | | | |
| | | 60 % Sal area | md | 26 | | |
| | 2 | Aligment making of inspection path | md | 3 | | |
| | 3 | Staking of planting pits with alignment & collection of stakes | md | 5 | | |
| | 4 | Digging of planting hoeing sal line breaking clods pits over | | | | |
| | | Size (40 + 37.5) x 37.5 x 37.5, | | | | |
| | | . 2 | | | | |
| | | 2500pits/ha | md | 25 | | |
| | 5 | Carriage of seedlings (man carriage including loading unloding in trucks) over 2500/ha | md | 15 | | |
| | 6 | Planting of potted seedling 2500/ha and sowing of sal seeds at a spacing of 2m x 2m & in block (20m x 8m) | md | 23 | | |
| | 7 | cleaning weeding 1st time (3rd week of planting) | md | 18 | | |
| | 8 | Infilling Vacancies | md | 4 | | T |
| | 9 | Cleaning weeding 2nd time | md | 12 | | |
| | 10 | Cleaning weeding 3rd time | md | 8 | | |
| | | total Md | | 139 | 224.58 | 31,216.62 |
| | 11 | Carriage of seedling by truck | LS | | | 600.00 |
| | | Total B | | | | 31,816.62 |
| С | | Purchase of sal seeds 100 kg/ha | | | | 3,024.00 |
| | | Total C | | | | 3,024.00 |

| | Total A+B+C | | | 38,015.00 |
|--|-------------|-------------|--|-----------|
| | | | | |
| | | Grand total | | 38,015.00 |

HILLS SAL.PLTN Estimate for Sal Plantation in North Bengal : Hills - Maint. Year 1 1st Year Maintenance (for Hill area)

| SI No. | Particulars of works | Unit (DL) | Rate (Rs.) | Amount (Rs.) |
|--------|---|-----------|------------|--------------|
| 1 | Cleaning of bushes, jungles etc along the miscellaneous line and interspaces between sal lines. | 10 | 224.58 | 2245.80 |
| 2 | Hand weeding of Sal Line | 23 | 224.58 | 5165.34 |
| 3 | Carriage Jungle and bushes out of plantation area | 5 | 224.58 | 1122.90 |
| 4 | Control burning of bushes | 2 | 224.58 | 449.16 |
| 5 | Contingency | | | 33.60 |
| | Total | 40 | | 9016.00 |

(Rupees Nine Thousand Sixteen only.)

Estimate for Sal Plantation in North Bengal : Hills - Maint. Year 2 2nd Year Maintenance (for Hill area)

| SI No. | Particulars of works | Unit (DL) | Rate (Rs.) | Amount (Rs.) |
|--------|---|-----------|------------|--------------|
| 1 | Cleaning of bushes, jungles etc along the miscellaneous line and interspaces between sal lines. | 7 | 224.58 | 1572.06 |
| 2 | Hand weeding of Sal Line | 16 | 224.58 | 3593.28 |
| 3 | Carriage Jungle and bushes out of plantation area | 4 | 224.58 | 898.32 |
| 4 | Control burning of bushes | 2 | 224.58 | 449.16 |
| 5 | Contingency | | | 49.36 |
| | Total | 29 | | 6562.00 |

(Rupees Six Thousand Five Hundred Sixty two) only.

<u>Estimate for Sal Plantation in North Bengal : Hills - Maint. Year3</u> <u>3rd Year Maintenance (for Hill area)</u>

| SI No. | Particulars of works | Unit (DL) | Rate (Rs.) | Amount (Rs.) |
|--------|---|-----------|------------|--------------|
| 1 | Cleaning of bushes, jungles etc along the miscellaneous | 5 | 224.58 | 1122.90 |
| | line and interspaces between sal lines. | | | |
| 2 | Hand weeding of Sal Line | 11 | 224.58 | 2470.38 |
| 3 | Carriage Jungle and bushes out of plantation area | 4 | 224.58 | 898.32 |
| 4 | Control burning of bushes | 1 | 224.58 | 224.58 |
| 5 | Contingency | | | 42.64 |
| | Total | 21 | | 4759.00 |

(Rupees Four Thousand Seven Hundred Fifty Nine) only.

Estimate for Sal Plantation in North Bengal : Hills - Maint. Year4 4th Year Maintenance (for Hill area)

| SI No. | Particulars of works | Unit (DL) | Rate (Rs.) | Amount (Rs.) |
|--------|---|-----------|------------|--------------|
| 1 | Cleaning of bushes, jungles etc along the miscellaneous | 5 | 224.58 | 1122.90 |
| | line and interspaces between sal lines. | | | |
| | | | | |
| 2 | Hand weeding of Sal Line | 6 | 224.58 | 1347.48 |
| 3 | Carriage Jungle and bushes out of plantation area | 2 | 224.58 | 449.16 |
| 4 | Control burning of bushes | 1 | 224.58 | 224.58 |
| 5 | Contingency | | | 61.76 |
| | Total | | | 3206.00 |

(Rupees Three Thousand Two Hundred Six) only.

HILLS MISC PLTN CREATION (MALING DOMINATED AREA)

| 1 | Spacing Prescribed as per Working Plan | 2.5mx2.5 m |
|---|--|---|
| 2 | Pit Size /Planting Model | (0.6+0.45)/2x0.45x0.45 |
| 3 | Species | Rimbick Range: Abies, Hemlock, Quarcus, Champ, Cupressus, Katus, Guras, Tsupa, Okhar, Kowlo, Dhupi etc. Dhodrey & Tonglu: Quarcus, Maya, Hemlock, Cupressus, Kafal, Katus, Kaulo, Okhar. Ghoom Simana & Darjeeling Range:- Maya, Pipli, Okhar, Katus, Kafal, Champ, Kowlo, Hill Chandan, Lakchilaune, Utis, Rani & Tite Champ, Paiyu etc. |
| 4 | No of seedlings to be planted per Ha | 1600 |
| | | Survey and demarcation of the plantation area including GPS Survey by Technical Person. |
| | | Alignment of planting lines and staking the pit positions. |
| | | 3.Advance soil works by digging planting pits of size as mentioned above at 2.5 mx 2.5 m spacing. |
| | | Cleaning of plantation site and making inspection path including cleaning of malling etc. |
| | | 5. Preplanting cleaning of plantation area including removal of maling bamboo from plantation site. |
| | | 6.carriage of seedling (Man Carriage only 1800 seedlings by head loading & by horse (in Rimbick) from Central Nursery to planting site and return of stand and root trainers to central nursery. |
| 5 | Planting Pattern | 7. Transplanting of potted seedlings in pits,including filling up of planting pits with dug up pulverized soil,carriage of root trainers to planting site and collection and recarriage of root trainers to local store. |
| | | 8. Vacancy infilling. |
| | | 9. 1st mulching, weeding cleaning and application of fertilizer. |
| | | 10. 2nd mulching, weeding cleaning and application of fertilizer. |
| | | 11. 3rd cleaning, weeding. |
| | | 12. Carriage of fertilizer,insectcides etc. |
| | | 13. Cost of fertilizer,insecticides etc. |
| | | Method of Regeneration: |
| | | Blank & degrated areas shall be planted with misc species at 2.50mx 2.50m spacing. Block plantation shall be carried out. |

No of seedlings to be raised perha No of seedling to be planted per ha 2000 1600

| 5 Pricking out of seedlings 2000 nos @ 1mds/500 seedling= MD 224.58 6 Weeding cleaning sorting shifting 3 times MD 224.58 7 Watering over Nursery seedling (Nov to March) 2 times/ day MD 224.58 1 8 Contingencies Total cost nursery work over 1 ha. for 2000 seedling B Plantation Works - Creation /ha 1 Cleaning burning of plantation area including removal of maling etc. 2 Mide as per requirement) Starking of planting pits with alignment & collection of stakes | Amount (Rs.) 336.87 336.87 0 1452.5 |
|--|---|
| A maintenance. Cleaning of site including chilchaling around the nursery bed 12m2 Preparation of mother bed MD 224.58 1. Supply of: a) Compost= CUM 1750 0.8 b) Sand= CUM 0.325 280 Mixing compost, filling hycopot including sieving 2000nos of seedlings 2md/500 seedling MD 224.58 Pricking out of seedlings 2000 nos @ 1mds/500 seedling= MD 224.58 Weeding cleaning sorting shifting 3 times MD 224.58 Watering over Nursery seedling (Nov to March) 2 times/ day MD 224.58 Contingencies Total cost nursery work over 1 ha. for 2000 seedling B Plantation Works - Creation /ha Cleaning burning of plantation area including removal of maling etc. Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | 5 336.87 0 3 1452.5 |
| 1 12m2 MD 224.58 1. 2 Preparation of mother bed MD 224.58 1. 3 Supply of: a) Compost= CUM 1750 0.8 b) Sand= CUM 0.325 280 4 Mixing compost, filling hycopot including sieving 2000nos of seedlings 2md/500 seedling MD 224.58 5 Pricking out of seedlings 2000 nos @ 1mds/500 seedling= MD 224.58 6 Weeding cleaning sorting shifting 3 times MD 224.58 7 Watering over Nursery seedling (Nov to March) 2 times/ day MD 224.58 8 Contingencies Total cost nursery work over 1 ha. for 2000 seedling B Plantation Works - Creation /ha 1 Cleaning burning of plantation area including removal of maling etc. 2 Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) 3 Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | 5 336.87 0 3 1452.5 |
| 3 Supply of: a) Compost= CUM 1750 0.8 b) Sand= CUM 0.325 280 Mixing compost, filling hycopot including sieving 2000nos of seedlings 2md/500 seedling Pricking out of seedlings 2000 nos @ 1mds/500 seedling= Weeding cleaning sorting shifting 3 times Watering over Nursery seedling (Nov to March) 2 times/ day Contingencies Total cost nursery work over 1 ha. for 2000 seedling Plantation Works - Creation / ha Cleaning burning of plantation area including removal of maling etc. Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | 0 3 1452.5 |
| a) Compost= CUM 1750 0.8 b) Sand= CUM 0.325 280 Mixing compost, filling hycopot including sieving 2000nos of seedlings 2md/500 seedling MD 224.58 Pricking out of seedlings 2000 nos @ 1mds/500 seedling= MD 224.58 Weeding cleaning sorting shifting 3 times MD 224.58 Watering over Nursery seedling (Nov to March) 2 times/ day MD 224.58 1 Contingencies Total cost nursery work over 1 ha. for 2000 seedling Plantation Works - Creation /ha Cleaning burning of plantation area including removal of maling etc. Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | |
| b) Sand= CUM 0.325 280 Mixing compost, filling hycopot including sieving 2000nos of seedlings 2md/500 seedling MD 224.58 Pricking out of seedlings 2000 nos @ 1mds/500 seedling= MD 224.58 Weeding cleaning sorting shifting 3 times MD 224.58 Watering over Nursery seedling (Nov to March) 2 times/ day MD 224.58 1 Contingencies Total cost nursery work over 1 ha. for 2000 seedling Plantation Works - Creation /ha Cleaning burning of plantation area including removal of maling etc. Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | |
| Mixing compost, filling hycopot including sieving 2000nos of seedlings 2md/500 seedling Pricking out of seedlings 2000 nos @ 1mds/500 seedling= MD 224.58 Weeding cleaning sorting shifting 3 times MD 224.58 Watering over Nursery seedling (Nov to March) 2 times/ day MD 224.58 Contingencies Total cost nursery work over 1 ha. for 2000 seedling Plantation Works - Creation /ha Cleaning burning of plantation area including removal of maling etc. Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | |
| 6 Weeding cleaning sorting shifting 3 times MD 224.58 7 Watering over Nursery seedling (Nov to March) 2 times/ day MD 224.58 1 8 Contingencies Total cost nursery work over 1 ha. for 2000 seedling B Plantation Works - Creation /ha 1 Cleaning burning of plantation area including removal of maling etc. 2 Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) 3 Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | 910 3 1796.64 |
| 7 Watering over Nursery seedling (Nov to March) 2 times/ day MD 224.58 1 8 Contingencies Total cost nursery work over 1 ha. for 2000 seedling B Plantation Works - Creation /ha 1 Cleaning burning of plantation area including removal of maling etc. 2 Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) 3 Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | 1122.9 |
| 8 Contingencies Total cost nursery work over 1 ha. for 2000 seedling B Plantation Works - Creation /ha 1 Cleaning burning of plantation area including removal of maling etc. 2 Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | 1347.48 |
| Total cost nursery work over 1 ha. for 2000 seedling B Plantation Works - Creation /ha 1 Cleaning burning of plantation area including removal of maling etc. 2 Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) 3 Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | 2245.8 |
| B Plantation Works - Creation /ha 1 Cleaning burning of plantation area including removal of maling etc. 2 Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) 3 Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | 164.38 |
| 1 Cleaning burning of plantation area including removal of maling etc. 2 Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) 3 Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | 9713.00 |
| maling etc. Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | |
| wide as per requirement) Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) |) |
| (length not less then 75 cm) | 3 |
| 4 Digging of planting pits of size | 5 |
| 4 Digging of planting pits of size | |
| (0.6+0.45)/2x0.45x0.45 | 5 |
| 5 Carriage of seedling (Man Carriage only 1800 seedlings by head loading & by hourse | 3 |
| 6 Planting potted seedling 1600 seedlings including filling of pits. | |
| 7 1st Cleaning of plantation area (between 3rd to 5th week of planting by end of July) | 1 |
| ů , | 1 |
| 9 2nd time cleaning of plantation area including Mulching & Manuring by end of August 1 | 3 |
| 10 3rd cleaning of plantation area by end of Sept 1 |) |
| Aplication of fertilizer & carriage from road site to paltation site. MD 224.58 16 | 37954 |
| Sub Total | 37954 |
| i) Supply of fertilizer Manure Transportation, contingencies ect. Rs. 2300.00 12 ii) Cost of Rope/tin/watering can/bamboo/thatch etc. Rs. 400.00 iii) Contengincies etc Rs. 486.00 | 3186 |
| Total B | A11 AO |
| Total A+ B | 41140 |

| 1 | Spacing Prescribed as per Working Plan | 2.5mx2.5 m |
|---|--|---|
| | Pit Size /Planting Model | |
| | Pit Size / Planting Wodel | (0.6+0.45)/2x0.45x0.45 |
| 3 | Species | Takdah Range: Champ, Katus, Pipli, Maya, Kawlo, Okhar, Utis, |
| | • | Kapasi etc. |
| 4 | No of seedlings to be planted per Ha | 1600 |
| | | 1. Survey and demarcation of the plantation area including |
| | | GPS Survey by Technical Person. |
| | | 2. Alignment of planting lines and staking the pit positions. |
| | | 3.Advance soil works by digging planting pits of size as |
| | | mentioned above at 2.5 mx 2.5 m spacing. |
| | | 4. Cleaning of plantation site and making inspection path. |
| | | 5. Preplanting cleaning of plantation area. |
| | | 6.Carriage of seedling (Man Carriage only 1800 seedlings by |
| | | head loading from Central Nursery to planting site and return |
| | | of stand and root trainers to central nursery. |
| | | 7. Transplanting of potted seedlings in pits,including filling up |
| | | of planting pits with dug up pulverized soil, carriage of root |
| | | trainers to planting site and collection and recarriage of root |
| | | trainers to local store. |
| 5 | Planting Pattern | 8. Vacancy infilling. |
| | | 9. 1st mulching, weeding cleaning and application of fertilizer. |
| | | 10. 2nd mulching, weeding cleaning and application of |
| | | fertilizer. |
| | | 11. 3rd cleaning, weeding. |
| | | 12. Carriage of fertilizer, insectcides etc. |
| | | 13. Cost of fertilizer, insecticides etc. |
| | | Method of Regeneration: |
| | | Blank & degrated areas shall be planted with misc |
| | | species at 2.50mx 2.50m spacing. Block plantation shall |
| | | be carried out. |
| | | |
| | | |

No of seedlings to be raised perha No of seedling to be planted per ha Specing 2000 1600 2.5m x 2.5m

| | Specing | 2.5m x 2.5m | | | | | |
|------------|--|-------------|--------|------------------|--------------|--|--|
| SI. No. | Particulars | Unit | Rate | Man Days/ Cum | Amount (Rs.) | | |
| Α | Nursery Maintenance before planting including 2 year maintenance. | | | | | | |
| 1 | Cleaning of site including chilchaling of around the nurserya bed 12m2 | | | | | | |
| | , | MD | 224.58 | 1.5 | 336.87 | | |
| 2 | Preparation of mother bed | MD | 224.58 | 1.5 | 336.87 | | |
| 3 | Supply of: | | | | 0 | | |
| | a) Compost= | CUM | 1750 | 0.83 | 1452.5 | | |
| | b) Sand= | CUM | 0.325 | 2800 | 910 | | |
| 4 | Mixing compost, filling hycopot including sieving 2000nos of seedlings 2md/500 seedling | MD | 224.58 | 8 | 1796.64 | | |
| 5 | Pnicking out of seedlings 2000 nos @ 1mds/500 seedling= | MD | 224.58 | 5 | 1122.9 | | |
| 6 | Weeding cleaning sorting shifting 3 times | MD | 224.58 | 6 | 1347.48 | | |
| 7 | Watering over Nursery seedling (Nov to March) 2 times/ day | MD | 224.58 | 10 | 2245.8 | | |
| 8 | Contingencies | | | | 164.38 | | |
| | Total cost nursery work over 1 ha. for 2000 se | edling | | | 9713 | | |
| В | Plantation Works - Creation /ha | | | | | | |
| 1 | Cleaning burning of plantation area etc. | | | 20 | | | |
| 2 | Making of inspection over plantation area (75 cm to 90 cm wide as per requirement) | | | 3 | | | |
| 3 | Stacking of planting pits with alignment & collection of stakes (length not less then 75 cm) | | | 5 | | | |
| 4 | Digging of planting pits of size | | | | | | |
| | (0.6+0.45)/2x0.45x0.45 | | | 25 | | | |
| 5 | Carriage of seedling (Man Carriage only 1800 seedlings by head loading & by hourse | | | 18 | | | |
| 6 | Planting potted seedling 1600 seedlings including filling of pits. | | | 16 | | | |
| 7 | 1st Cleaning of plantation area (between 3rd to 5th week of planting by end of July) | | | 14 | | | |
| 8 | Infilling Vacancy | | | 4 | | | |
| 9 | 2nd time cleaning of plantation area including Mulching & Manuring by end of August | | | 18 | | | |
| 10 | 3rd cleaning of plantation area by end of Sept | | | 10 | | | |
| | Aplication of fertilizer & carriage from road site to paltation site. | | | 6 | | | |
| | | | 224.58 | 139 | 31217 | | |
| | Total B | | | | 31217 | | |
| | Total A+ B | | | | 40930 | | |

HILLS BAMBOO PLTN CREATION

| 1 | Spacing Prescribed as per Working Plan | 4mx4m | |
|----------|--|--|--|
| 2 | Pit Size /Planting Model | (60+45)/2x45 c.mx30 c.m. | |
| 3 | Species | Bamboo sp. | |
| 4 | No of seedlings to be planted per Ha | 625 | |
| 5 | Planting Pattern | 1. Survey and demarcation | |
| | | of plantation site and | |
| | | preparation. | |
| | | Initial cleaning and | |
| | | burning. | |
| | | 3. Alignment of pit. | |
| | | 4. Stacking of sticks. | |
| | | 5. Making of inspection | |
| | | path. | |
| | | Digging of pits of | |
| | | size(60+45)/2x45 c.mx30 | |
| | | c.m | |
| | | 7. Planting of potted | |
| | | seedlings in pits. | |
| | | 8. Carriage of seedlings up | |
| | | to pit. | |
| | | 9. Maintenance | |
| | | a.1st cleaning including | |
| | | infilling | |
| | | b.2nd cleaning | |
| | | c.3rd cleaning | |
| | | d 4th cleaning | |
| | | Planting pattern method as | |
| | | per working plan | |
| <u> </u> | 1 | (staggered/parallel) | |

| SI No | Particulars of Works | Mandays | Rate | Total (Rs.) |
|-------|---|---------|--------|-------------|
| 1 | Survey and demarcation of plantation site & | | | |
| | preparation of regeneration plan | 1 | 224.58 | 224.58 |
| 2 | Initial Cleaning & Burning | 15 | 224.58 | 3368.7 |
| 3 | Alignment of pit | 4 | 224.58 | 898.32 |
| 4 | Stacking of sticks | 3 | 224.58 | 673.74 |
| 5 | Making inspection path | 3 | 224.58 | 673.74 |
| 6 | Digging of pits of size (60+45)/2 x 45 cm x 30 cm | 15 | 224.58 | 3368.7 |
| 7 | Planting of potted seedlings in pits | 10 | 224.58 | 2245.8 |
| 8 | carriage of seedling up to pit | 4 | 224.58 | 898.32 |
| 9 | Maintenance | | | |
| | a) 1st cleaning including infilling | 16 | 224.58 | 3593.28 |
| | b) 2nd Cleaning | 14 | 224.58 | 3144.12 |
| | c) 3rd Cleaning | 12 | 224.58 | 2694.96 |
| | d) 4th Cleaning | 10 | 224.58 | 2245.8 |
| 10 | Contingencies | | | 26 |
| | | | | 24056.00 |

134 HILLS MISC.PLTN

| | | | Hills | | | | | | |
|----------|------------|---|----------|------|----------|-------------------------|---------------------|---------------|-----------------|
| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate (Rs.) | Amount (Rs.) |
| Advance | 1 | Survey and demarcation of the plantation area including GPS Survey by Technical person | 1.00 | ha | Labour | 0.50 | 2.00 | 224.58 | 449.16 |
| Advance | 2 | Alignment of planting lines and staking the pit positions | 1600.00 | nos | Labour | 1000.00 | 1.50 | 224.58 | 336.87 |
| Advance | 3 | Advance Soil works by digging planting pits of size (0.40+0.30)/2x0.30x0.30 m3 at 2.5x2.5 m spacing (1600 nos.) | 1600.00 | nos | Labour | 80.00 | 20.00 | 224.58 | 4491.60 |
| Advance | 4 | Cleaning of the pltn site and making inspection path | 1.00 | ha | Labour | 0.05 | 22.00 | 224.58 | 4940.76 |
| | 5 | Preplanting cleaning of plantation area | 1.00 | ha | Labour | 0.16 | 6.00 | 224.58 | 1347.48 |
| Creation | 6 | Carriage of seedlings from Central Nursery to Planting site including loading and unloading and return of Stand and Root Trainers to Central Nursery | 1600.00 | nos | Material | | | LS | 1200.00 |
| Creation | 7 | Transplanting of potted seedlings in pits, including filling up of planting pits with dug up pulverized soil, carriage of Root Trainers to planting site and collection and recarriage of Root Trainers to local store site | 1600.00 | nos | Labour | 80.00 | 20.00 | 224.58 | 4491.60 |
| Creation | 8 | Vacancy infilling | 160.00 | nos | Labour | 40.00 | 4.00 | 224.58 | 898.32 |
| Creation | | 1st mulching, weeding, cleaning and application of fertilizer | 1600.00 | nos | Labour | 115.00 | 14.00 | 224.58 | 3144.12 |
| Creation | 10 | 2nd mulching, weeding, cleaning and application of fertilizer | 1600.00 | nos | Labour | 133.00 | 12.00 | 224.58 | 2694.96 |
| Creation | 11 | 3rd cleaning, weeding | 1600.00 | nos | Labour | 160.00 | 10.00 | 224.58 | 2245.80 |
| Creation | 12 | Carriage of fertilizer, insecticide etc. | LS | | Material | | | LS | 250.00 |
| Creation | | Cost of fertilizer, insecticides etc. | LS | | Material | | | LS | 1200.00 |
| Creation | 14 | Watch & Ward (1 md per 10 ha) for 6 months | LS | | Labour | | 18.00 | 224.58 | 4042.44 |
| Advance | 15 | Contingencies - Labour | LS | | Labour | | | LS | 122.00 |
| Advance | 16 | Contingencies - Material | LS | | Material | | | LS | 250.00 |
| Creation | 17 | Contingencies - Labour | LS | | Labour | | | LS | 106.00 |
| Creation | 18 | Contingencies - Material | LS | | Material | | | LS | 200.00 |
| | | | | | | Total | 129.50 | | 32411.00 |

$\underline{\textbf{Estimate for Miscellaneous Plantation in North Bengal: Hills-Maint. Year 1}\\$

1st Year Maintenance (for Hill area)

| | Hills | | | | | | | | |
|-----------|------------|--|----------|------|----------|-------------------------|---------------------|---------------|-----------------|
| Category | SI. No. | ltem | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate (Rs.) | Amount (Rs.) |
| Maint. Y1 | 1 | Vacancy infilling | 160.00 | nos | Labour | 80.00 | 2.00 | 224.58 | 449.16 |
| Maint. Y1 | | 1st weeding, cleaning, mulching with application of fertilizer | 1600.00 | nos | Labour | 100.00 | 16.00 | 224.58 | 3593.28 |
| Maint. Y1 | 3 | 2nd weeding, cleaning | 1600.00 | nos | Labour | 114.00 | 14.00 | 224.58 | 3144.12 |
| Maint. Y1 | 4 | 3rd weeding, cleaning | 1600.00 | nos | Labour | 160.00 | 10.00 | 224.58 | 2245.80 |
| Maint. Y1 | 5 | Cost of fertilizer and insecticide etc. including carriage | LS | ha | Material | | | LS | 600.00 |
| Maint. Y1 | 6 | Watch & Ward for 12 months (1 md for 10 ha) | 1.00 | На | Labour | | 25.00 | 224.58 | 5614.50 |
| Maint. Y1 | 7 | Contingency - Labour | | | | | | | 28.00 |
| Maint. Y1 | 8 | Contingency - Material | | | | | | | 100.00 |
| | Total | | | | | | | | 15775.00 |

Estimate for Miscellaneous Plantation in North Bengal: Hills - Maint. Year 2

2nd Year Maintenance (for Hill area) Hills Output SI. Required Rate Amount Category Item Quantity Unit Type per Mandays No. (Rs.) (Rs.) manday 449.16 Maint. Y2 1 Vacancy infilling 160.00 nos Labour 80.00 2.00 224.58 Maint, Y2 2 1st weeding, cleaning, mulching with 1600.00 114.00 14.00 224.58 3144.12 nos Labour application of fertilizer Maint. Y2 3 2nd weeding, cleaning 1600.00 Labour 133.00 12.00 224.58 2694.96 nos Maint. Y2 4 Cost of fertilizer and insecticide etc. LS Material LS 600.00 including carriage 5 Watch & Ward for 12 months Maint. Y2 1.00 На Labour 25.00 224.58 5614.50 Maint. Y2 6 Contingency - Labour 52.00 7 Contingency - Material Maint. Y1 100.00 12655.00 Total 53.00

Estimate for Miscellaneous Plantation in North Bengal: Hills - Maint. Year3

3rd Year Maintenance (for Hill area) Hills Output SI. Required Rate Amount Unit Category Quantity Item Type per Mandays (Rs.) (Rs.) manday 3144.12 Maint. Y3 1 1st weeding, cleaning 1600.00 114.00 14.00 224.58 nos Labour Maint. Y3 2 2nd weeding, cleaning 1600.00 nos Labour 133.00 12.00 224.58 2694.96 Maint. Y3 34.00 3 Contingency - Labour 4 Contingency - Material Maint. Y3 50.00 Total 26.00 5923.00

Estimate for Miscellaneous Plantation in North Bengal: Hills - Maint. Year4

4th Year Maintenance (for Hill area) Hills Output SI. Required Rate Amount Category Item Quantity Unit Type per Mandays (Rs.) (Rs.) manday 3144.12 Maint. Y4 1 1st weeding, cleaning 1600.00 Labour 114.00 14.00 224.58 nos Maint. Y4 2 Contingency - Labour 26.00 3 Contingency - Material Maint. Y4 50.00 Total 14.00 3220.00

DPN NURSER 202 Advance work

Unit 2000 seedlings/Ha 1 Cooice of Specice

:: sel with its associates, Eucalyptus, Akashmoni and Mise. Species-Bahera, Karanj, Neem, Peasal, Haritaki, Mahul Etc.

| Α | NURSERY WORK:- | | | | | | |
|---|--|----|-------|----|--------|-----|----------|
| 1 | Cleaning and leveling of Nursery site | :: | 0.50 | DL | 224.58 | Rs. | 112.29 |
| 2 | preparation of mother beds and tube beds of size 1.20 mt*5 mt. | :: | 1.00 | DL | 224.58 | Rs. | 224.58 |
| 3 | Sowing seeds in mother bed | :: | 0.50 | DL | 224.58 | Rs. | 112.29 |
| 4 | Filling of polythene tube with mixture of good earth and Cowdung / FYM (3:1) | :: | 5.00 | DL | 224.58 | Rs. | 1122.90 |
| 5 | Dibbling Seeds. | :: | 1 | | 224.58 | | 224.58 |
| 6 | Pricking out of seedlings and dibbling of seeds in tube | :: | 1.00 | DL | 224.58 | Rs. | 224.58 |
| 7 | Weeding cleaning forking, application of bio fertilizer, insecticide etc | :: | 1.00 | DL | 224.58 | Rs. | 224.58 |
| 8 | Watering seedling | :: | 4.00 | DL | 224.58 | Rs. | 898.32 |
| | Total | :: | 14.00 | DL | 224.58 | Rs. | 2,919.00 |
| | | | | | | | |
| В | NURSERY WORK MATERIAL COMPONENT:- | | | | | | |
| 1 | Price of watering can, rope , Bucket etc. | :: | | | | RS. | 118.00 |
| 2 | Price of seed of different species | :: | | | | RS. | 175.00 |
| 3 | Price of cowdung 1m3. | :; | | | | RS. | 400.00 |
| 4 | Price of insecticide etc. | :: | | | | RS. | 100.00 |
| 5 | Cost of collection of goods earth for filling polythene tube cowdung | :: | | | | RS. | 200.00 |
| 6 | Cost of polypot(1.5 kg) | :: | | | | RS. | 287.00 |
| | Total | | | • | | Rs. | 1280.00 |
| | Total Advance Work | :: | | | | Rs. | 4,199.00 |

D.P.Nursery - Creation. (Unit 1.0 ha area).

| SI. No. | Particulars of Work | No.of MD | Mat.in unit | Rate in Rs. | Amount in Rs. |
|------------|---|----------|----------------|-------------|---------------|
| Α | DPN - Creation. | | | | |
| 1 | Filling polythene tube with good earth& FYM (3:1) | 5 | | 224.58 | 1122.9 |
| 2 | Dibbling Seeds. | 1 | | 224.58 | 224.58 |
| 3 | Pricking out seedlings from mother bed & transplanting in poly pots. | 0.5 | | 224.58 | 112.29 |
| 4 | Making shed for poly beds with thatch & bamboo,etc. | 1 | | 224.58 | 224.58 |
| 5 | Making nursery hut. | 1 | | 224.58 | 224.58 |
| 6 | Erection of fencing around nursery. | 1 | | 224.58 | 224.58 |
| 7 | Sinking dug well. | 2 | | 224.58 | 449.16 |
| 8 | Watering, weeding, cleaning, sorting, shifting & culling as and when required including application insecticides (three) times. | 3 | | 224.58 | 673.74 |
| 9 | Digging of trench in periphery of Nursery site over 60cm x 45 cm x | 1 | | 224.58 | 224.58 |
| | 110 mt, in order to remove excess water. | 1 | | 224.38 | |
| 10 | Contingency for Signboard, etc. | | LS | | 719.16 |
| | GRAND TOTAL (1.0 ha) | 15.50 | | | 4200.00 |

203 Ramet Productio

| SL. No. | Item of Work | No./Mandays (MDs) allowed | Unit Cost/ Wages in Rs. | Amount in Rs. |
|------------|--|------------------------------|-------------------------------|---------------|
| A. | Cost of doing the following works in c/w ramets production nos. | | | |
| 1 | Cleaning inside the mist chamber by rubbing floors and application of fungicides 4 times x 2 nos. chamber. | 93 | 224.58 | 20885.94 |
| 2 | Properly fixing and setting of misters, LD pipe etc. for 2 Nos. chamber | 32 | 224.58 | 7186.56 |
| 3 | Filling hycopots over - 50000 Nos. sterilized sand/vermiculite after clearning the post with application of fungicides | 312 | 224.58 | 70068.96 |
| 4 | Cutting of shoots with knife including application of fungicides to prevent fungus attack | 134 | 224.58 | 30093.72 |
| 5 | Cutting ramets (shoots) in 2 pieces into proper size including the treatment of hycopots with water and root promoting hormone over - 50000 Nos. | 288 | 224.58 | 64679.04 |
| 6 | Misting and looking after clones including sorting culling over - 50000 Nos. for 45 days. | 134 | 224.58 | 30093.72 |
| | Total in Rs. | | | 223008.00 |
| В. | Cost of electrical maintenance by engaging technician of internal and external electrical system at Modern Nursery from July - 15 to Dec-15 = 6th months | 6 | 6500 | 39000.00 |
| | Total in Rs. | | | 39000.00 |
| C. | Cost of supply of the following materials for use in Modern Nursery | | | |
| 1 | Supply of medicine, vitamin, fungicides, root promoting hormone etc. | | L.S. | 6024.00 |
| 2 | Supply of course sand | 6 | 1000 | 6000.00 |
| | Total in Rs. | | | 12024.00 |
| | Grand Total (Group A+B+C) | | | 274032.00 |

Cost of creation is Rs.5.30 per ramet.

| SL. No. | Item of Work | | Unit Cost/ Wages in Rs. | Amount in Rs. |
|------------|--|------|-------------------------------|---------------|
| Α. | Cost of doing the following works in c/w maintenance of ramets | | | |
| | Watering and watching over 50000 seedlings 3 (Three) times daily to upgrade the quality ramets including removal of dead one from 01.04.2015 to 30.06.2016, Total = 91 days. | 228 | 224.58 | 51204.24 |
| | Application of fungicides, hormone time to time and where necessary and cleaning the areas. | 48 | 224.58 | 10779.84 |
| 3 | Contingent expenditure, if any | L.S. | L.S. | 384.00 |
| | Total in Rs. For 1 ha. | | • | 62368.00 |

Cost per seeding for maintenance is Rs.1.20

203 RAMET

COST FOR CREATION AND PRODUCTION LOF RAMETS FROM CMA (For production of 60000 No. of Ramets)

| | CREATION OF MA @ 10000 NO., OF PLANTS PER HECTARE WITH BARBED WIRE FENCING ETC., FOR AN AREA OF 1 HECTARE WITH AN ESPACEMENT OF 1MX1M | |
|--------|---|-------------|
| SL. NO | Item of works | Cost in Rs. |
| 1 | Cost of special cleaning by cuttin havey bush, Lantana camera, thorn throrn Assamlota etc.,1Ha, 25MD @ Rs.71.08 | 1777 |
| 2 | Cost of servey & demarcation & alignment of pits 1 ha (Spacing 1m*1m=10000 Nos),19MD @ Rs.71.08 per MD | 1350.52 |
| 3 | Cost of Digging pits of size 1/2(60+45)45*45, 1 MD pit 40Nos.=250 Nos. Md @Rs.71.08 | 17770 |
| 4 | Cost of filling up planting pits and applied neem oil cake, 1 MD pit filling=100 Nos. @Rs-71.08 | 7108 |
| 5 | Cost of carring ramets from site of Modem Nursery to CMA as 80 Nos. =1 MD@Rs-71.08 | 5686.4 |
| 6 | Cost of planting of ramets over 10000 Nos. in filled up pits=75 Nos. per 1 MD, 133 MD, 133MD @Rs. 71.08 | 9453.64 |
| 7 | Cost of 1st mulching, hoeing the base of plant and clering the weeds and unwanted growth(15MDs for 1600No.), 94 MD @Rs.71.08 | 6681.52 |
| 8 | Cost of 2nd mulching, hoeing the base of plant and cleaning the weeds, unwanted growth and application of fertilizer and termiticides, 94 No. MDs @Rs.71.08 | 6681.52 |
| 9 | Cost of supply of neem oil cake per pits 50 grams at the time of pit filling over 10000 pits, 5Qtl @ Rs.1000 per Qtl. | 5000 |
| 10 | cost of supply of DAP at time of 1st and 2nd mulching over 1 ha, 10000 Nos. per plant 20gm*2times*10000No.=400Kg @Rs.10 per bag including carriage | 4400 |
| 11 1 | cost of supply phorate 10grams at the time of 1st & 2nd mulching applied 5 grams per plant*10000Nos*2times=100Kg @Rs.45 per Kg including carriage | 4500 |
| 12 | Cost of supply of chlogerand liters @Rs.190.00 per liter | 950 |
| 13 | Cost of erecting the fencing around the cma (50% common fencing) by fitting, fitting, fixing the fencing post by hole and coal tarring the base over 100 Nos. post on central @ Rs.11.50 each over 1Ha or say 19 No. MD @Rs 71.08 | 1350.52 |
| 14 | Cost of stretching barbed wir over 200 Rmt*6 stand=1200 Rmt@0.80 per Rmt or say 16 No. MD. | 1137.28 |
| 15 | Supply of stapple etc., o0ver 660 Nos. @Rs.0.65 each | 429 |
| 16 | Cost of supply barbed wire for erecting of fencing over 172 Kgs @Rs.45.00 per Kg (1 Kg=7mtr approx), 58 Kg including carriage | 9976 |
| 17 | Contingency | 748.6 |
| | Total for 1 Ha Creation works | 85000 |
| | Total for 0.2 Ha Creation works | 17000 |

COST OF MAINTENANCE OF 1 HECTARE CM (Cleaning, mulchinf with fertilizer, pruning of unwanted shoots, watering, spray of insecticides etc.) @ 10000No plants per Hectare

| S.NO | Item of works | Cost in Rs. |
|------|--|-------------|
| 1 | Weeding and cleaning the site 50 No.s, MD @ 71.08 | 3554 |
| 2 | Forking the base including application of the fertilizer over 10000 Nos., 100 No.s, MD @Rs.71.08 | 7108 |
| 3 | Application of insecticides, termiticides etc., 20No.s, MD @Rs.71.08 | 1421.6 |
| 4 | Cost of supply of DAP fertilizer @ 20grams per plant * 10000 No.s, Plant=200 Kg @Rs.10.00 per kg | 2000 |
| 5 | Cost of Supply of termiticides like phorate 10G etc,. @ 5 hrams per grams | 2250 |
| 6 | Watering wnen required (15 days interval*3 times)*75 MDS @Rs.71.08 | 5331 |
| 7 | Puring and throwing away the unwanted shoots etc. from CMA,40 MDS @Rs.71.08 | 2843.02 |
| 8 | Contingency | 492.38 |
| | Total for 1 Hectare | 25000 |
| | Total for 0.2 Hectare | 5000 |

| C. | INFRASTRUCTURE DEVELOPMENT FOR PROPAGATION OF EDCALYPTUS RAMETS | | |
|----|---|------------|--|
| a. | Supply of hycopot 60cc,60,000 No., @ Rs.1.50 each | 90000.00 | |
| b. | supply of trays 960 No., @ Rs.45.00 each | 43200.00 | |
| c. | supply of Iron Stand 160 No. @ Rs. 250.00 each | 40000.00 | |
| d. | Agro shed net 75% or 50% LS | 6800.00 | |
| | TOTAL | 180,000.00 | |

204 Seed Collection

| d | Cost of packing and labeling Total in Rs. | L.S. | | 15.00 225.00 |
|---|--|------|--------------|------------------------|
| С | Cost of Drying and processing | L.S. | | 45.00 |
| b | Cost of collection and local transportation | L.S. | | 125.00 |
| а | Cost of purchase of polythene sheet, ropes, bamboo stick, poly bags etc. | L.S. | 40/- per Kg. | 40.00 |

| | 2000 | | |
|--------------------------------|-------------------|------------------|------------------------|
| 150cc Root Trainers | 1 Root Trainer | Root tariners | 10000 Root Trainers |
| | (cc) | (m3) | (m3) |
| Requirement of Compost | 50 | 0.1 | 0.5 |
| Requirement of Coarse Sand | 50 | 0.1 | 0.5 |
| Requirement of Burnt Rice Husk | 50 | 0.1 | 0.5 |

| | | For 10 | ,000 Seedl | ings | | | | | |
|----------|----------|---|------------|------|----------|----------------------|---------------------|--------|------------|
| Category | SI No | Items | Quantity | Unit | Туре | Output per Manday | Required Mandays | Rate | Amount(Rs) |
| Creation | 1 | Supply of Compost | 0.5 | m3 | Material | | | LS | 1,500.00 |
| Creation | 2 | Preparation of potting mixture(Mixing through hand driven Mixture machine) | 1.5 | m3 | Labour | 0.75 | 2 | 224.58 | 449.16 |
| Creation | 3 | Supply of Coarse sand including collection and carriage | 0.5 | m3 | Material | | | LS | 300.00 |
| Creation | 4 | Drying and seiving Sand | 0.5 | m3 | Labour | 1 | 0.5 | 224.58 | 112.29 |
| Creation | 5 | Supply of Burnt Rice Husk including Collection and carriage | 0.5 | m3 | Material | | | LS | 300.00 |
| Creation | 6 | Drying and seiving Burnt Rice husk | 0.5 | m3 | Labour | 2 | 0.25 | 224.58 | 56.15 |
| Creation | 7 | Filling of Root trainers and keeping filled root trainers on stands | 10000 | no | Labour | 800 | 12.5 | 224.58 | 2,807.25 |
| Creation | 8 | Collection of Quality seeds including collection and carriage | LS | | Material | | | LS | 500.00 |
| Creation | 9 | Drying , Sorting and pretreatment of seeds and sowing in hyglopits | 5 | Kg | Labour | 5 | 1 | 224.58 | 224.58 |
| Creation | 10 | Pricking out the transplanting of seedinlings in Root Trainers | 10000 | No | Labour | 500 | 20 | 224.58 | 4,491.60 |
| Creation | 11 | Supply of insecticides | L.S | | Material | | | LS | 500.00 |
| Creation | 12 | Watering for 90 days(January to march) including Watering in Hygropits and spraying of insecticides | 10000 | No | Labour | 20000 | 45 | 224.58 | 10,106.10 |
| Creation | 13 | Sorting and Weeding-2 times | 20000 | No | Labour | 10000 | 4 | 224.58 | 898.32 |
| Maint | 14 | Watering for 120 days(April to July) including Spraying of insecticides | 10000 | No | Labour | 15000 | 80 | 224.58 | 17,966.40 |
| Maint | 15 | Sorting and Weeding-2 times | 20000 | No | Labour | 10000 | 4 | 224.58 | 898.32 |
| | | Contingencies- Advance | | | | | | LS | 100.00 |
| Creation | 16 | Contingencies- Creation | LS | | | | | LS | 286.00 |
| Maint | 17 | Contingencies- Maintenance | LS | | | | | LS | 56.00 |
| | • | Total | | | | | 169.25 | | 41,552.00 |

Requirement of Compost 0.2 1 100 m3 Requirement of coarse Sand 100 0.2 1 m3 Requirement of Burnt Rice husk 0.2 100 m3 1

| | | <u> </u> | For | 10000 seed | lings | | | | |
|----------|-------|---|----------|------------|----------|----------------------|---------------------|--------|----------------|
| Category | SI no | ltem | Quantity | Unit | Туре | Output per Manday | Required Mandays | Rate | Amount (Rs) |
| Advance | 1 | Supply of compost | 1 | m3 | Material | | | L.S | 3,000.00 |
| Creation | 2 | Preparation of potting mixture(Mixing through hand driven Mixture machine) mixture machine | 1 | | Labour | 0.75 | 4 | 224.58 | 898.32 |
| Creation | 3 | Supply of course sand including collection and carriage | 1 | | Material | | | L.S | 600.00 |
| Creation | 4 | Drying and sieving sand | 1 | m3 | Labour | 1 | 1 | 224.58 | 224.58 |
| Creation | 5 | Supply of Burnt Rice Husk including collection and carriage | 1 | m3 | Material | | | L.S | 600.00 |
| Creation | 6 | Drying and sieving Burnt Rice husk | 1 | m3 | Labour | 2 | 0.5 | 224.58 | 112.29 |
| Creation | 7 | Filling of Root trainers and keeping filled root trainers on stands | 10000 | no | Labour | 500 | 20 | 224.58 | 4,491.60 |
| Creation | 8 | Collection of Quality seeds including collection and carriage | LS | | Material | | | LS | 2,500.00 |
| Creation | 9 | Drying , Sorting and pretreatment of seeds and sowing in hygropit and dibbling Root trainers | 20 | Kg | Labour | 5 | 4 | 224.58 | 898.32 |
| Creation | 10 | Pricking out the transplanting of seedinlings in Root Trainers | 10000 | No | Labour | 500 | 20 | 224.58 | 4,491.60 |
| Creation | 11 | Supply of insecticides | L.S | | Material | | | LS | 500.00 |
| Creation | 12 | Watering for 30 Days(June)including Watering in Hygropits and spraying of insecticides | 10000 | No | Labour | 10000 | 30 | 224.58 | 6,737.40 |
| Creation | 13 | watering for 90 days(July to September) including watering in Hygropits and spraying of insecticides | 10000 | No | Labour | 30000 | 30 | 224.58 | 6,737.40 |
| Creation | 14 | watering for 90 days(October to December) including watering in Hygropits and spraying of insecticides | 10000 | No | Labour | 20000 | 45 | 224.58 | 10,106.10 |
| Creation | 15 | watering for 90 days(January to March) including watering in Hygropits and spraying of insecticides | 10000 | No | Labour | 20000 | 45 | 224.58 | 10,106.10 |
| Maint | 16 | Watering for 90 days(April to mid- July) including watering in Hygropits and spraying of insecticides | 10000 | No | Labour | 15000 | 70 | 224.58 | 15,720.60 |
| Maint | 17 | Sorting and Weeding-2 Times | 20000 | No | Labour | 10000 | 4 | 224.58 | 898.32 |
| Creation | 18 | Contingencies- Creation | LS | | | | | LS | 208.00 |
| Maint | 19 | Contingencies- Maintenance | LS | | | | | LS | 16.00 |
| | | Total | | | | | | | 68,847.00 |

| 150 cc Root Trainers | 1 Root Trainer | 2,000 Root Trainers | 10,000 Root Trainers | |
|----------------------------|-------------------|---------------------------|----------------------------|--|
| | (cc) | (m3) | (m3) | |
| Requirement of Compost | 70 | 0.14 | 0.70 | |
| Requirement of Coarse Sand | 30 | 0.06 | 0.30 | |

For 10.000 Ramet

| ΙΔ | D==== | For 10,00 | U Kamet | | | | | | |
|----------|------------|--|-------------|------------|----------------|-------------------------|---------------------|--------------------|-----------------|
| A | Prepai | ration of Clones | | 1 | 1 | Output | | 1 | 1 |
| Category | SI. No. | ltem | Quantity | Unit | Туре | per manday | Required Mandays | Rate | Amount (Rs.) |
| Creation | 1 | Preparation of potting mixture (Mixing through hand driven | | _ | | | | | |
| | | Mixture Machine) | 1.00 | | Labour | 0.75 | 1.50 | 224.58 | 336.87 |
| Creation | 2 | Supply of Coarse Sand | 0.30 | m3 | Material | | | LS | 210.00 |
| Creation | 3 | Drying and Seiving Sand | 0.50 | | Labour | 1.00 | 0.50 | | 112.29 |
| Creation | 4 | Supply of Compost | 0.70 | m3 | Material | | | LS | 2100.00 |
| Creation | 5 | Filling of Root Trainers and keeping filled Root Trainers on Stands | 10000.00 | no. | Labour | 1000.00 | 10.00 | 224.58 | 2245.80 |
| Creation | 6 | Cutting effective shoots into pieces of proper size and placing them into buckets filled with water & fungicide solution. Carrying these cuttings to the shed & making nodal cuttings. | 10000.00 | | Labour | 250.00 | 40.00 | 224.58 | 8983.20 |
| Creation | 7 | Application of Talc media root promoting hormone at the lower end, making hole & placing the cutting in the root-trainer. | 10000.00 | no. | Labour | 2000.00 | 5.00 | 224.58 | 1122.90 |
| Creation | 8 | Putting in Hygropits (ramet) | 10000.00 | no. | Labour | 2000.00 | 5.00 | 224.58 | 1122.90 |
| Creation | 9 | Watering in Hygropits | 10.00 | | Labour | 10.00 | 1.00 | 224.58 | 224.58 |
| Creation | 10 | Taking out Root Trainers and placing them in 70% / 50% agronet shed area. | 10000.00 | no. | Labour | 2000.00 | 5.00 | 224.58 | 1122.90 |
| Creation | 11 | Supply of hormones, fungicides, insecticides. | | no. | Material | | | | 2500.00 |
| Creation | 12 | Sparying of insecticides | 10000.00 | no. | Labour | 20000.00 | 0.50 | 224.58 | 112.29 |
| Creation | 13 | Watering for 90 days (January to March) | 10000.00 | | Labour | 25000.00 | 36.00 | 224.58 | 8084.88 |
| Creation | | Sorting and Weeding-2 times | 20000.00 | | Labour | 20000.00 | 2.00 | 224.58 | 449.16 |
| Maint | 14 | Watering for 120 days (April to July) | 10000.00 | | Labour | 20000.00 | 60.00 | 224.58 | 13474.80 |
| Maint | 15 | Sorting and Weeding-1 times | 20000.00 | | Labour | 20000.00 | 1.00 | 224.58 | 224.58 |
| | 16 | Contingencies - Creation | 20000.00 | 1101 | Edood: | 20000.00 | 1.00 | 22 1130 | 486.00 |
| | 17 | Contingencies - Maintenance | | | | | | | 124.00 |
| | | Total | | | | | | | 43037.00 |
| В | Maint | enance of Existing CMA | Considering | about 3000 | 000 nos of rai | mets to be f | finally obtai | ned from 0.4 | l ha |
| | | Spacing of CMA Plants | 1m × 1m | | | | | | |
| | | Total no. of CMA plants per ha | 10,000 | | | | | | |
| Category | SI. No. | Item | Quantity | Unit | Туре | Output per manday | Required Mandays | Rate | Amount (Rs.) |
| Creation | 1 | Flush cutting of stumps of clonal plants in the CMA to allow coppice shoots to sprout [Flushing to be done 1/4 th area at a time] Stumps at 2m × 2m, i.e.; 2500 nos per ha. Cutting includes disposal of shoots including carriage outside CMA | 4000.00 | no. | Labour | 200.00 | 20.00 | 224.58 | 4,491.60 |
| Creation | 2 | 1st hoeing of the soil around the stumps for aeration, mulching and application of fertilizer etc. | 4000.00 | no. | Labour | 80.00 | 50.00 | 224.58 | 11,229.00 |
| Creation | 3 | 2nd hoeing of the soil around the stumps for aeration, mulching and application of fertilizer etc. | 4000.00 | no. | Labour | 80.00 | 50.00 | 224.58 | 11,229.00 |
| Creation | 4 | 3rd hoeing of the soil around the stumps for aeration, mulching and application of fertilizer etc. | 4000.00 | no. | Labour | 80.00 | 50.00 | 224.58 | 11,229.00 |
| Creation | 5 | Channel irrigation in between lines, once in 10 days for 4 months. | 4000.00 | no. | Labour | 1000.00 | 48.00 | 224.58 | 10,779.84 |
| Creation | 6 | Material including supply of furtilizer, pipes etc. | LS | | Material | | | LS | 3,300.00 |
| | 7 | Contingencies | | | | | | | 612.00 |
| | | Total | | | | | | | 52,870.44 |
| L | | Cost per 10,000 ramets | | İ | 1 | 1 | | | |
| | | Labour | | | | 218.00 | 224.58 | 48,958.44 | 1,569.60 |
| | | | | | + | | | | |
| | | Material | | | | | | 3.300.00 | 110.00 |
| | | Material Contingency | | | | | | 3,300.00 612.00 | 110.00 20.40 |

301 SOUTH BENGAL RDF

| 1 | Spacing Prescribed as per Working Plan | As per working plan. |
|---|--|--|
| 2 | Pit Size /Planting Model | As per working plan. |
| 3 | Species | As per working plan. |
| 4 | No of seedlings to be planted per Ha | 1600 |
| 5 | Planting Pattern | Cutting of dead,dying,moribund,bent,suppressed coppice shoots of Sal Flush of the ground. |
| | | 2. Hoeing around basal portion of living stump, mulching, application of fertilizer and spraying insecticides. |
| | | 3.Material for live fencing including carriage upto site. |
| | | 4.Erection of live hedge Ipomea,Vitex,Thornyspp,fencing with bamboo posts including local carriage of all materials. |
| | | 5.Carriage of fertilizer,insecticides etc. and application. |

SOUTH BENGAL RDF 2

| Category | SI No. | ltem | Quantity | Unit | Туре | Output per | Required mandays | Rate | Amount (Rs.) |
|----------|--------|--|----------|------|----------|------------|------------------|--------|-----------------|
| Creation | 1 | Survey and demarcation of the plantation area including GPS Survey by Technical person | 1.00 | ha | Labour | 1.00 | 1.00 | 224.58 | 224.58 |
| Creation | 2 | Cutting of dead, dying , moribund,bent,supressed coppice shoots of Sal Flush of the ground | 1.00 | ha | Labour | 0.10 | 10.00 | 224.58 | 2,245.80 |
| Creation | 3 | Hoeing around basal portion of living stump, mulcing, application of fertilizer and spraying of insecticides | 1.00 | ha | Labour | 0.13 | 8.00 | 224.58 | 1,796.64 |
| Creation | 4 | Erection of live hedge Ipomea, Vitex,thornyspp, fencing with bamboo posts including local carriage of all materials | 400.00 | rmt | Labour | 100.00 | 4.00 | 224.58 | 898.32 |
| Creation | 5 | Material for live fencing including carriage upto site | LS | | Material | | | L.S | 1,000.00 |
| Creation | 6 | carriage of fertilizer, insecticides etc. and application | LS | | Material | | | LS | 150.00 |
| Creation | 7 | cost of fertilizer, insecticides etc. | LS | | Material | | | LS | 400.00 |
| | 8 | Contingencies- Labour | LS | | Labour | | | LS | 32.00 |
| | 9 | Contingencies-Material | LS | | Material | | | LS | 100.00 |
| | | Total | | | | | | | 6,847.00 |

SOUTH BENGAL - MS CUTTING

| | UNIT :1.00 HA | | | | | | | | |
|---------|---|----------|------------|--------------|--|--|--|--|--|
| SI. No. | Particulars of Works | No of MD | Rate (Rs.) | Amount (Rs.) | | | | | |
| 1 | Suravey and demarcation the area including clearing bushes along boundary | 2 | 224.58 | 449.16 | | | | | |
| 2 | Coaltaring the leading shoots to be retained 2-3 in Nos. per stump | 3 | 224.58 | 673.74 | | | | | |
| 3 | Cutting dead, dying , moribund trees retaining 2-3 Nos. per stump to produce healthy and better quality crops | 15 | 224.58 | 3368.70 | | | | | |
| 4 | Contingencies, i.e price of coal tar etc. | | | 112.00 | | | | | |
| | | 1 Ha | TOTAL | 4604.00 | | | | | |

Mechanical thinning

| Item no | Particulars of Work | Units | Rate | Amount (Rs) |
|------------|---|-------|--------|----------------|
| | Cost of doing the following works in connection with thinning of Plantation | | | |
| 1 | Marking of trees for felling including supply of paint+ labour works per hectre | 1 | 224.58 | 224.58 |
| 2 | Cutting of Marked trees in a thinning plot over 1 Hectre area labour works | 4 | 224.58 | 898.32 |
| 3 | Cutting of firewood @ 5 Stacks per hectre and stacking over 1 hectre Labour | 4 | 224.58 | 898.32 |
| 4 | Carriage of Firewood to depot from field and stacking in depot per stack | 5 | 224.58 | 1122.90 |
| | Total per Hectre expenses | | | 3144.00 |

SOUTH BENGAL - CONTOUR TRENCH

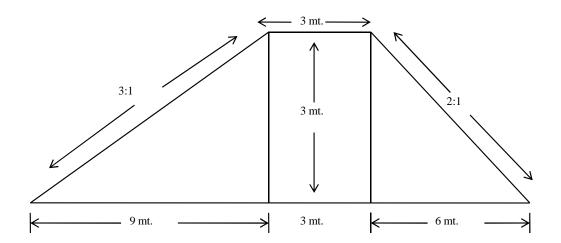
<u>Unit = 1 km.</u>

| SL. No. | Particulars Of Works | Unit | Qnty. | Rate | Amount (Rs.) |
|------------|--|------|-------|--------|-----------------|
| 1 | Cost of Surveying | No. | 1 | 224.58 | 224.58 |
| 2 | Supply of bamboo peg, rope, lime etc for necessary alignment | LS | | | 49.90 |
| 3 | Cost of excavation of earth for making/digging contour trench around 1 KM where necessary over 5.00mtx0.45mtx0.30mt=0.675m3x60nos=40.5m3 | m³ | 40.5 | 92.2 | 3734.10 |
| | TOTAL(Rs) | | | | 4008.00 |

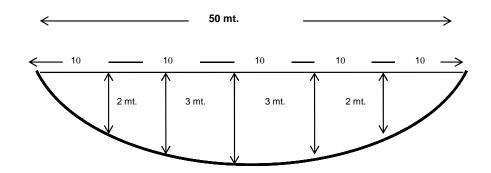
SOUTH BENGAL EARTHERN DAMS

Specification of Earthen Dam:

| 1) Length of Embankment of E.D. | 50 mt. |
|---------------------------------|--|
| 2) Top Width | 3 mt. |
| 3) Bottom Width | 18 mt. |
| 4) Average Width | 10.5 mt. |
| 5) Inner Slop | 3:1 |
| 6) Outer Slope | 2:1 |
| 7) Hight of the E.D. | 3 mt. |
| 8) Sectional Area | (9mt. + 3mt. + 6mt. + 3mt.) x 3mt. |
| | = 10.5mt. x 3mt. = 31.5 m ² |
| | |



Designe for Digging of Earth Layer by Layer:



Calculation of volume of Earth for the Earthen Dam:

| Point | Height | Sec.Area (m²) | Sum | Mean | Dist. | Volume (m ³ | 3) |
|-------|--------|---------------|-------|-------|-------|------------------------|----|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10.00 | 2.00 | 16.00 | 16.00 | 8.00 | 10.00 | 80.00 | |
| 20.00 | 3.00 | 31.50 | 47.50 | 23.75 | 10.00 | 237.50 | |
| 30.00 | 3.00 | 31.50 | 63.00 | 31.50 | 10.00 | 315.00 | |
| 40.00 | 2.00 | 16.00 | 47.50 | 23.75 | 10.00 | 237.50 | |
| 50.00 | 0.00 | 0.00 | 16.00 | 8.00 | 10.00 | 80.00 | |
| | | | | | | 950 | m³ |

Estimate for Construction of Earthen Dam as Soil & Moisture Conservation

| SI. No. | Particular of Works | Mandays (md) / | Rate | Labour Cost | Material Cost | Total Cost |
|------------|---|-------------------|-------------------|-------------|------------------|------------|
| | Cost of doing the following works in connection with construction of an E.D. in forest area as fallows: | | | | | |
| 1 | Survey, demarcation & cleaning of the site | 5 md | 224.58 /md | | | 1122.90 |
| 2 | Digging key trench in mixed medium hard soil with morrum over: - Length - 50mt.; Top width - 2.5mt.; Bottom width - 2mt.; Depth - 90cm. = (2.5+2.0)/2 x 0.9mt. x 50mt. = 101.25 m3 = 3543.75cft. Or say 3544cft. by engaging daily labour | 70 md | 224.58 /md | 14420.00 | | 15720.60 |
| 3 | Making core wall of mud and placing layer after layer (layer not excluding 30cm. Height) by ordinary mixed soil to be excavated over: 1) (2.5+2.0)/2 x 0.9mt. x 50mt. = 101.25m3 2) (2.0+0.6)/2 x 1.5 mt. x 50mt. = 97.50m3 = 198.75 m3 | 75 md | 224.58 /md | 15450.00 | | 16843.50 |
| 4 | Digging earth and depositing the same layer after layer not excluding 15cm. Including breaking of clodes and rough dressing in mixed medium hard soil with morrum over: 950 m3 + (add) 10% for settlement i.e. 95 m3 = 1045 m3 - (less volume of earth excavation for spill way and core wall) 112.25 m3 = 932.75 m3 (a) Spill way - 30mt. x 0.90cm. x (2.0+1.5)/2 and (b) Core wall 47.25 m3 + 65.00 m3 = 32646 cft. | | | | | |
| | Lead upto 80 ft. and lift upto 3 ft., 55% of earth = 17955 cft. by engaging daily labour | 245 md | 224.58 /md | 50470.00 | | 55022.10 |
| | Lead upto 80 ft. and lift from 3 ft. to 6 ft. 45% of earth = 14691 cft. by engaging daily labour | 190 md | 224.58 /md | 39140.00 | | 42670.20 |
| 5 | Digging spill way to drain out excess water over 47.25 m ³ = 1654 cft. by engaging daily labour | 21 md | 224.58 /md | 4326.00 | | 4716.18 |
| | Total: | 606 md | 224.58 /md | 123806.00 | 0.00 | 136095.48 |
| | Overhead Expenditure | | L.S. | | 104.00 | 104.00 |
| 7 | Estimate for 50 mt. length | | | | | 136199 |
| | Estimate for 300 mt length of E.D | | | | | 817,197.00 |

 $UNIT = 1 M^3$

| SI. No. | Item of work | Man days in Nos. | Material in unit. | Rate (in Rs.) | Amount (in Rs.) |
|------------|---|---------------------|-------------------|---------------|--------------------|
| | Cost of doing the following works in connection with treatment of gully for protection of gully & soil and moisture conservation works over 1 m ³ . (Size 1mt. X 1mt.) | | | | |
| 1 | Making structural works for protection of gully by using of morrum blocks, fitting fixing including foundation trench & supplying of all materials over 1 mt. | 6.5 | | 224.58 | 1459.77 |
| 2 | Cost of morrum blocks (1mt. X 1mt. X 1mt. = 1m ³), Bamboo Posts, Bushes etc. including carriage | | L.S. | 796 | 796 |
| | Total | | | | 2256.00 |

| SI. No. | Particulars of Work | | Unit | Quantity | Rate (in Rs.) | Amount (Rs) |
|---------|--|--------------|------|----------|---------------|----------------|
| | Earth work in excavation of foundation trensoils including lateritor sand - soiletc. for | | | | | |
| 1 | a) Depth of excavation not exceeding 1.5 mt | tr. | | | | |
| | 1.0 x 0.45X.45 = | 0.202 | m3 | 0.202m3 | 92.21 | 18.62 |
| 2 | Sand Filling in foundation - 1.0X0.45X0.10= .045 | 0.045 | m3 | 0.045m3 | 505.64 | 22.75 |
| 3 | Brick flat soling in foundation - 1.0x0.30m | 0.3 | m2 | 0.30m2 | 321.3 | 96.39 |
| 4 | Cement Concrete (1:2:4) in foundation - 1x0.30x0.075 | 0.0225 | m3 | 0.0225 | 4718.11 | 106.16 |
| 5 | Brick Work 3" with (6:1) cement morter 1x2x0.45 | 0.9 | m2 | 0.90m2 | 400 | 360 |
| 6 | Plastering 20mm thick 1x1.35 | 1.35 | m2 | 1.350m2 | 129.37 | 174.65 |
| 7 | Neat Cement Punning over 1.35m2 | 1.35 | m2 | 1.35m2 | 31.36 | 42.33 |
| | | Total - | | • | • | 779.53 |
| | Со | st per 1 mtr | | | | 780 |
| | Co | st per 1 Km | | | | 780,000 |

BOULDER SAUSAGE WORK(HILLS)

| Item No. | Particular of works | Md | Labour (Rs.) | Material (Rs.) | Total (Rs.) |
|-------------|---|------|--------------|-------------------|-------------|
| | Making Boulder Sausage wall (@ 1m3) | | | | |
| 1 | Mazdoors engaged for making Hand packed wall with Sausage wire net : | | | | |
| | a) Collection of stones boulders, carriage up to road site & stacking | 3.00 | | | |
| | b) Carriage of stones boulders from road site to Work site. | 4.00 | | | |
| | c) Excavation of earth in all sorts of soil. | 1.00 | | | |
| | d) Cutting of sausage wire netting to required size rollin g the same & | | | | |
| | making bundles. | 1.50 | | | |
| | e) Carriage of sausage from road side to working site by head load | 2.00 | | | |
| | f) Making sausage wall with stone boulders by way of handpacking including | | | | |
| | laying with G.I. wire stretching and tightening complete | | | | |
| | Skilled mazdoor - 2.00 no. | 1.00 | | | |
| | Mason - 1.00 no. | 1.00 | | | |
| | Ordinary - 2.00 nos. | 2.00 | | | |
| | g) Filling the gap with stone boulders including collection & carriage of stone | | | | |
| | boulders, dressing etc. | 2.00 | | | |
| | Abstract of mazdoor m3 | | | | |
| | Mason - 1 nos. @ Rs.400.00 each = Rs. 400.00 | | | | |
| | Skilled - 2 nos. @ Rs.235.00 each = Rs. 470.00 | | | | |
| | Ordinary - 15.50 nos. @ Rs.224.58 each = Rs.3480.99 | | 4350.99 | | |
| | h) Supplying of 8 gauge sausage wire netting mesh of 15 cm x 15 cm gap | | | | |
| | including carriage up to road site. (4.50m2 per/m3) @Rs.120.00 per m2 | | | | |
| | including Vat | | | 540.00 | |
| | i) Supplying of 8 gauge G.I. Wire for ties 0.5 kg/per m3 @ Rs.80.00/kg | | | | |
| | including Vat | | | 40.00 | |
| | j) Contingencies for threads, etc. | | | 50.52 | |
| | Cost per m3 | | 4350.99 | 630.52 | 4982.00 |

BOX DRAIN(HILL)

Making catch water drain of inside dimension 300mmx300mm with 400mm thick rubblemasonry in cement mortar(1:6) including earthwork in excavation and filling, 150mm thick handpacked stone soiling and cementcomcrete(1:4:8) in base, cement concrete(1:2:4) in haunch filling

| SI no | Items of works | Unit | Quantity | Rate(Rs) | Amount(Rs) |
|----------|--|------|----------|----------|------------|
| | Page no. 1-2 Item No. 2(a). | | | | |
| 1 | Earth work in excavation of drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the soil/earth within a lead of 75 m. as required. Depth of excavation not exceeding 1500 mm. 1x1.00x1.10x0.50= 0.55 m3 | % M3 | 0.55 | 12047 | 66.26 |
| | Attached : Analysis of Rate-1 | | | | |
| 2 | cost of supplying stone bouldersminimum 150 mm of local variety and labour for laying soiling including rough dressing, hand packing, and ramming down small pieces in the intersticks withour rolling and preparing the bed to proper level and filling up all joints with sandy clay or earth. 1x1.00x1.10=1.10m2 | M2 | 1.1 | 196.52 | 216.17 |
| | | | | | |
| | Page 11 Item No.5 PWD current schedule of rate (b) River bazree Ordinary Cement concrete (mix 1:2:4) with | | | | |
| 3 | graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes 1x1.00x1.10x0.05=0.05m3 | М3 | 0.05 | 7116 | 355.80 |
| | Page No. 83-84 Items No. 53(a). | | | | |
| 4 | Rubble masonry in cement (1:6) with hard dressed stones collected locally and clean, coarse and washed sand including carriage of all materials to site. 2x1.00x0.40x0.30=0.24m2 | М3 | 0.24 | 2906.62 | 697.59 |
| | Page 11 Item No.5 PWD current schedule | | | | |
| | of rate (b) River bazree Ordinary Cement concrete (mix 1:2:4) with | | | | |
| 5 | graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes | М3 | 0.01 | 7116 | 71.16 |
| | 1x1.00x0.30x0.05(Ave.th)=0.01m3 | | | D- | 1400.00 |
| | Total | | | Rs | 1406.98 |
| | Contingency Cost of 1 PMT | | | Rs | 23.02 |
| | Cost of 1 RMT | | <u> </u> | | 1430.00 |

Length - 1 mt

| SI. No | Particulars | La | bour | Contingency | Amount (Rs.) |
|-----------|--|--------------------|-----------------------|-------------|--------------|
| | Cost of doing the following works in connection with making Hand Packed Wall with boulder. | Skilled (in MD) | Un-skilled (in MD) | | |
| 1 | Breaking &Collection of Stone Boulders 150 mm and above. | | 1 | | |
| 2 | Carriage of Stone Boulders upto work site and stacking. | | 4 | | |
| 3 | Excavation of Foundation. | | 0.5 | | |
| 4 | Hand Packed Masonry Wall with boulders obtained from nearby stacks. | 1 | 2 | | |
| 5 | Back Filling with small stones and earth obtained from excavation of foundation. | | 1 | | |
| | Total | 1 | 8.5 | | |
| | Rate (Rs.) | 350.00 | 224.58 | | |
| | Cost for 1 M3 (Rs.) | 350.00 | 1,908.93 | 44.64 | 2,304.00 |

STONE MASONRY WALL(HILL)

| SI. No | Particulars | Unit (Cu.M) | Quantity | Rate | Amount (Rs.) |
|-----------|---|------------------|----------|---------|--------------|
| 1 | Earth work in excavation of drains, in all sorts of soil. | Unskilled M.D | 0.4 | 224.58 | 89.83 |
| 2 | Cost of supplying stone boulders minimum 150mm of local variety | " | 1.5 | 224.58 | 336.87 |
| 3 | Collection and carriage of Sand. | " | 1 | 224.58 | 224.58 |
| | P-14 I-8 | | | | |
| 4 | Plum cement Concrete work with 30mm down graded stone Chips (40%) and stone boulder of size 150 mm and above size (60%), placed in position as directed excluding shuttering if any (1:4:8) | Cu.Mt | 1 | 2843.72 | 2843.72 |
| | Total | 3495.00 | | | |

NORTH BENGAL BREAST STONE WALL

| SI no | Particulars | Unit | Quantity | Rate | Amount (Rs.) |
|-------|--|------|----------|---------|--------------|
| | Cost of Doing the following works in connection with making Rubble Masonry with breast stone (1:6) | | | | |
| | PWD(Buildings) Schedule of rates-2010 | | | | |
| | Page No. 83-84 Item No. 53(a) | | | | |
| 1 | Rubble masonry in cement (1:6) with hard dressed stones from approved quarries and clean, coarse and washed sand including carriage of all materials to site | Cu.M | 1 | 3419.55 | 3419.55 |
| | Cost of 1 Cu. M | | | Rs | 3419.55 |
| | Or say | | | Rs | 3410.00 |

| 427 B | BREAST STONE WALL(HILL) | | | | |
|-------|---|------|----------|------|--------------|
| SI no | Particulars | Unit | Quantity | Rate | Amount (Rs.) |
| | Cost of Doing the following works in connection with making | | | | |
| | Rubble Masonry with breast stone (1:6) | | | | |
| | PWD(Buildings) Schedule of rates 2014-15 | | | | |
| | Page No. 36 Item No. 53(a) | | | | |
| | Rubble masonry in cement (1:6) with hard dressed stones | | | | |
| 1 | from approved quarries and clean, coarse and washed sand | Cu.M | 1 | 4728 | 4728 |
| | including carriage of all materials to site | | | | |
| | Cost of 1 Cu. M | | | Rs | 4728 |
| | Or say | | | Rs | 4728 |

NORTH BENGAL BELLY BENCHING

| | Mate | erials | | |
|--|--------------------------|---------------------|--------------------------|------------|
| Particulars | G.I Wire 16 Gauge(Kg) | Wire nail 4"(Kg) | Labour Unskilled (md) | Amount(Rs) |
| Cost of Mazdoors engaged for doing the following works in connection with making Belly bneching (Bamboo pallisade). | | | | |
| Preparation of Site by cutting weeds & earth and levelling | | | 0.5 | |
| Cost of Collection of Poles & Bamboos and carriage upto the landslip area. | | | 1 | |
| 3) Piling poles 100mm dia 150 Cm long upto 75 cm below G.L. @ 50 Cm apart, fitting & fixing splitted bamboo horizontally with nails & wires including lining with brush wood and filling with earth, complete. | | | 1.5 | |
| 4) Supply of G.I Wire 16 Gauge. | 0.4 | | | |
| 5) Supply of G.I Wire Nail 4" | | 0.3 | | |
| For 1 RMT | 0.40 | 0.30 | 3.00 | |
| Rate(Rs) | 78.00 | 66.00 | 183.00 | |
| Cost of 1 RMT | 31.20 | 19.80 | 549.00 | 600.00 |

CFC in North Bengal Plains Firewood Operation

| SI No | Particulars | Rate per Stack (in Rs.) |
|-------|--|-------------------------|
| 1 | Cutting of Firewood, collection and Stacking the same at CFC | 150.00 |
| 2 | Carrying of Firewood up to depot including the cost of loading and un-loading the same, hiring of vehicle, fuel etc. | 200.00 |
| 3 | Stacking the firewood at depot | 40.00 |
| | TOTAL Per Stack. (Rs. Three hundred ninety) only | 390.00 |

CFC in North Bengal Plains TIMBER OPERATION

| SI No | Particulars | Rate per Cubic Mts (in Rs.) |
|----------|---|---------------------------------|
| 1 | Checking of CFC Marked Trees | 2.00 |
| 2 | Felling & Logging of marked trees including supply of felling equipments etc. | 420.00 |
| 3 | Ring Cutting in the middle of logs | 40.00 |
| 4 | Debarking of Sal Logs | 50.00 |
| 5 | Digiting & Painting of logs | 35.00 |
| 6 | Rolling & Dragging of logs up to loading points at CFC | 350.00 |
| 7 | Making temporary extraction path including supply of Boulders, RBM etc. at CFC | 100.00 |
| 8 | Watch & Ward of CFC Produce including the cost of making temporary Watcher's Hut by engaging Daily Laborers for 90 days X 4 DLs = 360 M.Days @ Rs.230/- per day per M.Days = Rs 82,600/- for about 1000 Cubic Mts (Approx.) | 83.00 |
| 9 | Carriage of Timber logs up to depots including the cost of Loading, Un-Loading at Depot, Fuel Cost, Hiring of Trucks, JCB Loaders etc. | 700.00 |
| 10 | Stacking of logs at Depot | 160.00 |
| 11 | Formation of lots and writing of depot serial no, lot no etc including supply of paints. | 60.00 |
| | TOTAL Per Cubic Mts. (Rs. Two Thousand) only | 2,000.00 |

CFC IN NORTH BENGAL HILLS TIMBER OPERATIONS

| | Particulars of Work | | Quantity | Unit | Rate | Amount (Rs.) |
|------|---|-------------|----------|--------|--------|--------------|
| | Cost of Doing following work in connection with the collection of firewood & extraction of timber from different Range Location under this division | | | | | |
| | Range | Vol.(in m3) | | | | |
| | Tista Valley | 45.00 | | | | |
| | Darjeeling | 25.00 | | | | |
| | Total | 70.00 | | | | |
| Timb | per Operation | | | | | |
| 1 | Felling | | 1 | m3 | 140.00 | 140.00 |
| 2 | Sectioning & rolling | | 1 | m3 | 160.00 | 160.00 |
| 3 | Numbering & digiting | | 1 | m3 | 30.00 | 30.00 |
| 4 | Rolling of logs upto 150mt | | 1 | m3 | 400.00 | 400.00 |
| 5 | Hand Sawing into block size for man carriage | | 1 | m3 | 550.00 | 550.00 |
| 6 | Carriage of timber upto depot | | 1 | m3 | 625.00 | 625.00 |
| 7 | stacking in log | | 1 | m3 | 125.00 | 125.00 |
| 8 | Writing Depot Serial | | 1 | m3 | 50.00 | 50.00 |
| 9 | Making saw bench | | 1 | m3 | 120.00 | 120.00 |
| | Cost of one CUM timber | | 1 | | | 2200.00 |
| | Total Cost of 1 stacks firewood | | 1 | Stacks | 350.00 | 350.00 |

South Bengal Timber Operations - Rates

| Item & Measurement | Unit | Proposed cost per unit 2014-15 |
|--|------|--------------------------------|
| A. INCIDENTAL COSTS | На | |
| Coup Marking | На | 850.00 |
| Extraction Path | На | 1800.00 |
| Watch & Ward (coup) | На | 900.00 |
| Watch & Ward (depot) | На | 200.00 |
| Maintenance of Depot | 56 | 3200.00 |
| FELLING, LOGGING & CARRIAGE COSTS POLE | | |
| Upto 40 cm any length | No. | 36.00 |
| 41-50 cm up to 12' | No. | 40.00 |
| 41-50 cm up to 12'-14' | No. | 43.00 |
| 41-50 cm above 14' | No. | 45.00 |
| 51-60 cm up to 12' | No. | 43.00 |
| 51-60 cm up to 14'-16' | No. | 58.00 |
| 51-60 cm up to 18'-20' | No. | 80.00 |
| 51-60 cm up to 20' | No. | 105.00 |
| 61 cm above up to 12' | No. | 65.00 |
| 61 cm above up to 14'-16' | No. | 110.00 |
| 61 cm above up to 18'-20' | No. | 165.00 |
| 61 cm above up to 22'-24' | No. | 190.00 |
| 61 cm above 24' | No. | 280.00 |
| COGGING SLEEPER | | |
| 5'x5"x5" | No. | 20.00 |
| 4'x4"x4" | No. | 15.00 |
| FIREWOOD | | |
| Sal | Cum | 345.00 |
| Eucalyptus | Cum | 345.00 |
| Akashmoni | Cum | 360.00 |
| PULP WOOD | | |
| Sal billets | Cum | 540.00 |
| EUC billets | Cum | 540.00 |
| Akas billets | Cum | 600.00 |
| TIMBER | | |
| Sal | Cum | 1600.00 |
| Eucalyptus | Cum | 1600.00 |
| Akashmoni | Cum | 1700.00 |

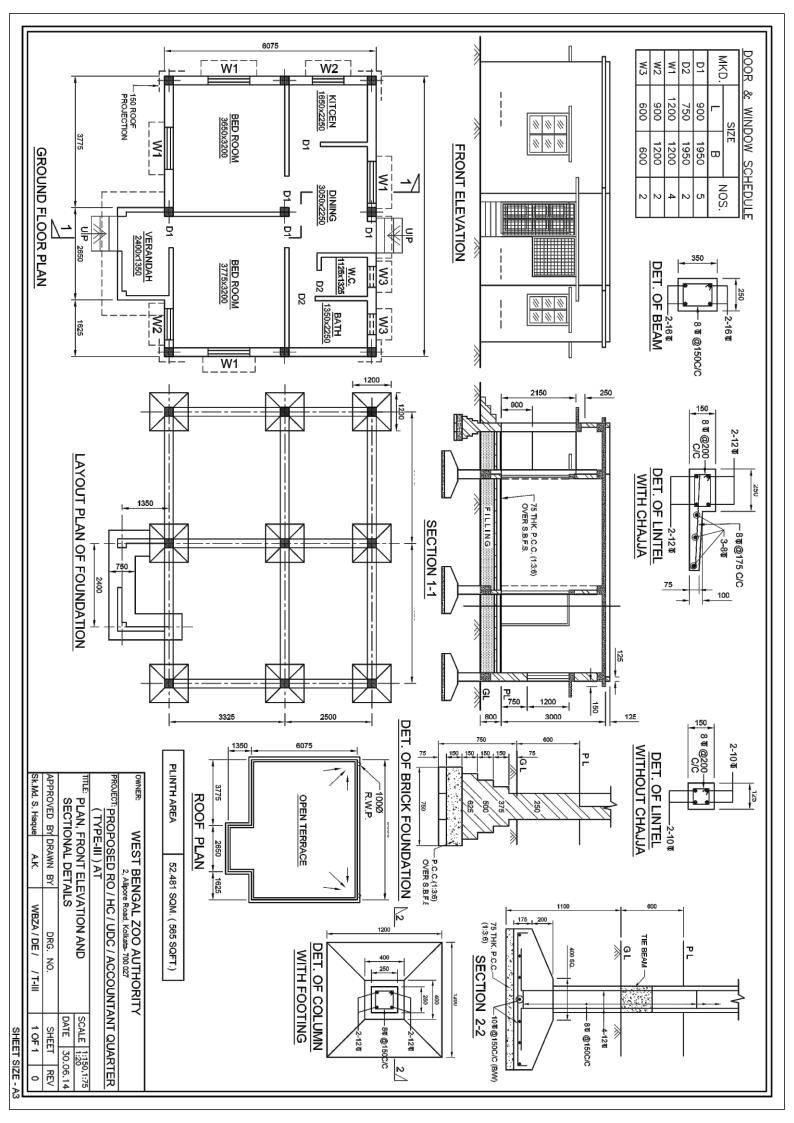
515 CFC South Bengal

| | | | HARVESTING RATE | | | | | | | | | | | | | | |
|-----------|-------------------------------|--------------------|-----------------|-----------------------------|---------------------------|---------------------------|--------------|-----------|---------------------------|-------------|-------------|---------------------------|-----------|--------|---------------------------|-------------|---------|
| | | | Fixed (| Charges | | Dista | nce upto | 10 km | | tance 11-20 | | Dist | ance 21-3 | 0 km | Distan | ce more tha | n 30 km |
| SL. No | Particulars | Helping Passing | Stacking | Stacking Continge ncy | Total Fixed Charges | Felling Logging etc | Carriag e | Total | Felling Logging etc | Carriage | Total | Felling Logging etc | Carriage | Total | Felling Logging etc | Carriage | Total |
| 1 | Coupe Making, Survey etc. | | | | | | | Sal - Rs. | 750 per ha; | Plantation | - Rs. 450 p | er ha | | | | | |
| 2 | Watch & Ward | | | | | | | | Rs. | 900 per ha | | | | | | | |
| 3 | Extraction Path | | | | | | | To be | decided o | n Individua | l coupe bas | is | | | | | |
| 4 | Sal & Euc Poles | | | | | | | | | | | | | | | | |
| a) | Girth upto 40 cm., any length | 1 | 2.5 | 0.5 | 4.00 | 13.5 | 13.5 | 31.00 | 13.5 | 14.5 | 32.00 | 13.5 | 16.5 | 34.00 | 13.5 | 18.5 | 36.00 |
| b) | 41-50 cm, upto 12' length | 1.5 | 3 | 0.5 | 5.00 | 14 | 14 | 33.00 | 14 | 16 | 35.00 | 14 | 18 | 37.00 | 14 | 21 | 40.00 |
| c) | 41-50 cm, 14' & 16' | 1.75 | 3 | 0.5 | 5.25 | 14.75 | 16 | 36.00 | 14.75 | 18 | 38.00 | 14.75 | 20 | 40.00 | 14.75 | 23 | 43.00 |
| d) | 41-50 cm, length 20' | 2 | 3.75 | 0.5 | 6.25 | 15.75 | 18 | 40.00 | 15.75 | 19 | 41.00 | 15.75 | 20 | 42.00 | 15.75 | 23 | 45.00 |
| e) | 51-60 cm, upto 12' length | 1.75 | 3 | 0.5 | 5.25 | 14.25 | 16 | 35.50 | 14.25 | 18 | 37.50 | 14.25 | 20 | 39.50 | 14.25 | 23.5 | 43.00 |
| f) | 51-60 cm, length 14' & 16' | 2 | 4.5 | 0.5 | 7.00 | 18 | 22 | 47.00 | 18 | 24 | 49.00 | 18 | 28 | 53.00 | 18 | 33 | 58.00 |
| g) | 51-60 cm, length 18' & 20' | 2.5 | 5.75 | 0.75 | 9.00 | 23 | 30 | 62.00 | 23 | 35 | 67.00 | 23 | 42 | 74.00 | 23 | 48 | 80.00 |
| h) | 51-60 cm, length>20' | 3.75 | 8.5 | 0.75 | 13.00 | 31 | 39 | 83.00 | 31 | 47 | 91.00 | 31 | 54 | 98.00 | 31 | 61 | 105.00 |
| i) | Girth>60cm, upto 12' length | 3 | 7 | 1 | 11.00 | 21 | 22 | 54.00 | 21 | 25 | 57.00 | 21 | 29 | 61.00 | 21 | 33 | 65.00 |
| j) | Girth>60 cm, 14' & 16' length | 5 | 10 | 1 | 16.00 | 31 | 39 | 86.00 | 31 | 46 | 93.00 | 31 | 53 | 100.00 | 31 | 63 | 110.00 |
| k) | Girth>60 cm, 18' & 20' length | 6 | 15 | 1 | 22.00 | 42 | 71 | 135.00 | 42 | 81 | 145.00 | 42 | 92 | 156.00 | 42 | 101 | 165.00 |
| I) | Girth> 60 cm, length > 20' | 7 | 20 | 1 | 28.00 | 51 | 76 | 155.00 | 51 | 83 | 162.00 | 51 | 96 | 175.00 | 51 | 111 | 190.00 |
| 5 | Cogging | | | | | | | | | | | | | | | | |
| a) | 4' x 4" x 4" (NO) | 0.4 | 1.7 | 0.4 | 2.50 | 5 | 4 | 11.50 | 5 | 4.5 | 12.00 | 5 | 5.5 | 13.00 | 5 | 7.5 | 15.00 |
| b) | 5' x 5" x 5" (NO) | 0.4 | 2.2 | 0.4 | 3.00 | 7.5 | 5.5 | 16.00 | 7.5 | 6.5 | 17.00 | 7.5 | 7.5 | 18.00 | 7.5 | 9.5 | 20.00 |
| 6 | Post | | | | | | | | | | | | | | | | |
| 7 | Sal Timber (per cum) | 18 | 138 | 14 | 17 | 470 | 710 | 1350 | 470 | 760 | 1400 | 470 | 860 | 1500 | 470 | 960 | 1600 |
| 8 | Euc timber (per cum) | 18 | 138 | 14 | 170 | 470 | 710 | 1350 | 470 | 760 | 1400 | 470 | 860 | 1500 | 470 | 960 | 1600 |
| 9 | Aks timber (per cum) | 18 | 138 | 14 | 170 | 600 | 700 | 1470 | 600 | 730 | 1500 | 600 | 830 | 1600 | 600 | 930 | 1700 |
| 10 | Sal Pulpwood (per cum) | 5 | 30 | 5 | 40 | 200 | 190 | 430 | 200 | 200 | 440 | 200 | 250 | 490 | 200 | 300 | 540 |
| 11 | Euc Pulpwood (per cum) | 5 | 30 | 5 | 40 | 200 | 190 | 430 | 200 | 200 | 440 | 200 | 250 | 490 | 200 | 300 | 540 |
| 12 | Aks Pulpwood (per cum) | 5 | 30 | 5 | 40 | 240 | 190 | 470 | 260 | 200 | 500 | 260 | 250 | 550 | 260 | 300 | 600 |
| 13 | Sal Firewood (per cum) | 3 | 24 | 3 | 30 | 140 | 125 | 295 | 140 | 130 | 300 | 140 | 140 | 310 | 140 | 175 | 345 |
| 14 | Euc Firewood (per cum) | 3 | 24 | 3 | 30 | 140 | 125 | 295 | 140 | 130 | 300 | 140 | 140 | 310 | 140 | 175 | 345 |
| 15 | Aks Firewood (per cum) | 3 | 24 | 3 | 30 | 155 | 125 | 310 | 155 | 130 | 315 | 155 | 140 | 325 | 155 | 175 | 360 |

| Sl. No. | Item | Unit | Quantity | Rate | Amount (Rs.) |
|---------|---|--------|----------|----------|--------------|
| 1.00 | Earth work in excavation of foundation trenches or drains, in all | | | | |
| P1 | orts of soils (including mixed soil but excluding laterite or | | | | |
| 2 | sandstone) i/c. removing, spreading or stacking the spoils within a lead of 75 m. | | | | |
| | as directed. The item includes necessary trimming the sides of trenches. Levelling, | | | | |
| | dressing and ramming the bottom, bailing out water etc. as required complete | | | | |
| | a) Depth of excavation not exceeding 1500 mm. | cum. | 17.275 | 92.21 | 1592.9 |
| 2.00 | Earth work in filling in foundation trenches or plinth with good | | | | |
| Р3 | earth in layers not exceeding 150 mm. including water and | | | | |
| 3 | raming etc. layer by layer complete. (Payment to be made on basis of | | | | |
| | measurment of finished quantity of work). | | | | |
| | a) With earth obtained from excavation of foundation | cum. | 3.455 | 59.50 | 205.5 |
| 3.00 | A. Filling in foundation or plinth by silver sand in layers not | | | | |
| P5 | exceeding 150 mm. as directed and cosolidating same by | | | | |
| 4 | Sheetaning 150 min as an estea and essentiating same by | | | | |
| · | thorough saturation with water raming complete including the cost of supply of | | | | |
| | sand. (Payment will be made on profile measurment before and after work) | cum. | 17.894 | 728.81 | 13041.3 |
| 4.00 | Single brick flat soling of picked jhama bricks i/c. ramming | | | | |
| P33 | and dressing bed to proper level and filling joints with | | | | |
| 1 | powdered earth or local sandsqm. 45.928 340.00 15615 | .52 | | | |
| | | | | | |
| 5.00 | Cement concrete with graded stone bllast (40 mm size | | | | |
| P59 | excluding shuttring) | | | | |
| 10. I | A) Pakur Variety | | | | |
| | a) 1:3:6 proportion | cum. | 5.906 | 4376.78 | 25849.2 |
| 6.00 | OrdinaryCement Concrete M20 (mix 3:1.5:1) with graded stone | | | | |
| P39 | chips (20 mm down) excluding shuttring and reinforcement if | | | | |
| 7 | any, in ground floor. As per relevant IS coads. | | | | |
| | a) Pakur Variety | | | | |
| | i) In Gr. floor | cum. | 19.225 | 5959.09 | 114563.5 |
| 7.00 | Hire and labour charges for shuttering with centering and | | | | |
| P63 | necessary staging upto 4 m. using approved stout props and | | | | |
| 12 | thick hard wood planks of approved thickness with required | | | | |
| 12 | bracing for concretes slabs, beams, columns, lintels curved or | | | | |
| | straight i/c. fitting, fixing and striking out after completion of | | | | |
| | works (In all floor) | | | | |
| | a)25mm.to 30 mm. thick wooden shuttering asper decision & | | | | |
| | direction of the engineer incharge | | | | |
| | i) In ground floor | sqm. | 180.956 | 286.99 | 51932. |
| | | • | | | |
| 8.00 | Reinforcement for reinforced concrete work in all sorts of | | | | |
| P65 | structures i/c. distribution bars, stirrups, binders etc. including | | | | |
| 15 | supply of rods, straightening and removal of loose rust (if | | | | |
| | necessary) cutting to requisite length, hooking and bending to | | | | |
| | correct shape,placing in proper position and binding with 16 | | | | |
| | gauge black annealed wire at every intersection, complete as | | | | |
| | per drawing and direction (For all floors) | | | | |
| | i) Tor steel/Mild steel | | | | |
| | i) In ground floor | M.T. | 1.509 | 69334.00 | 104625.0 |
| 9.00 | Brick work with 1st class bricks in cement morter(1:6) | | | | |
| P69 | | | | | |
| 22 | a) In foundation and plinth | cum. | 20.504 | 4999.00 | 102499.5 |
| 10.00 | 125 mm. thickbrick work with 1st class bricks in cement | | | | |
| P73 | mortar (4:1) | | 1 | | |
| 29 | iniorcal (4.1) | | | | |
| 23 | i) In Gr. floor | sqm. | 48.455 | 677.00 | 32804.0 |
| | I., 555. | -4···· | 70.433 | 5,7.00 | J2004.C |
| | | | 1 | | |

| P91 co 3 tol ma roi roi be co In 3 r | rtificial stone in floor, dado, staircase etc. with cement oncrete (1:2:4) with stone chips, laid in panels as directed with ping made with ordinary or white cement (as necessary)and | | | | |
|--|--|----------|---------|---------|----------|
| 3 top ma root root be co In 3 r | ping made with ordinary or white cement (as necessary)and | 1 | | | |
| roi roi be co In | | | | | |
| roi be co In 3 r | arble dust in proportion (1:2) including smooth finishing and | | | | |
| roi be co In 3 r | ouding off corners and including raking out joints or | | | | |
| be co In 3 r | ougheningof concrete surface and application of cement slurry | | | | |
| In 3 r | efore flooring works, using cement @ 1.75 kg/sq.m. all | | | | |
| 3 r | omplete including all materials and labour. | | | | |
| | ground floor | | | | |
| | mm thick topping (High polishing grinding on this item is | | | | |
| | ot permited with ordinary cement. | | | | |
| | sing grey cement 25 mm thick | sqm. | 42.103 | 236.56 | 9959.89 |
| , | | | | | |
| 12.00 Su | upplying, fitting and fixing1st quality porcelain tiles of any | | | | |
| P111 siz | ze in walls & floors I/c borders to match with the existing | | | | |
| | ork ,set in sand cement morter (4:1) including backing | | | | |
| | oncrete (1:2:4)&4 nos.of key stone (10mm.) fixed with araldite | | | | |
| | the back of each tile &finishing the joints with colouring | | | | |
| | kide (if requested) tomatch the colour of tile. other than white | | | | |
| | ground floor | sgm. | 35.120 | 674.93 | 23703.54 |
| | 8 | | | | |
| 13.00 M. | .S. or W.I. ornamental grill or approved design joint | | | | |
| | ontinuously welded with M.S., W.I. flates and bars for | | | | |
| | indows, railing etc. fitted and fixed with necessary screws and | | | | |
| | gs in ground floor. | | 460.057 | 67.04 | 44245.44 |
| a) | Grill weighing above 10 kg./sqm. Upto 16 kg./sqm. | kg | 168.857 | 67.01 | 11315.11 |
| 14.00 Su | upplying, fitting and fixing in position approved P.V.C. door | | | | |
| | ame (matt finish) made from extruded P.V.C. multichamber | | | | |
| 154 ho | ollow section having dimensions 60 mm. x 50 mm. x 2mm | | | | |
| (+0 | 0.2mm) horizontal section will be joined with vertical section | | | | |
| | y galvanised steel screws after inserting two numder steel | | | | |
| | rackets as reinforcement making suitable space for placing | | | | |
| | nges, one steel tube 40 mm. x 20 mm. x 1.20mm will be serted on one full vertical side of the frame (hinge side) as | | | | |
| | serted on one run vertical side of the frame (filinge side) as sinforcement, the frame will then be fixed in the opening with | | | | |
| | e help of P.V.C. expandable fastner and steel screws | | | | |
| inc | cluding cost of all materials and labour hire charges of tools | | | | |
| | nd appliances, carriage of all materials, taxes & all other | | | | |
| inc | cidental charges complete. | Mtr. | 10.800 | 252.70 | 2729.16 |
| 15.00 PV | /C Door Shutter 30mm thick . | | | | |
| | upplying, fitting and fixing P.V.C. door shutter of approved | | | | |
| | uality and shade in position, the style and rail of the P.V.C. | | | | |
| do | por shutter will be made of rigid P.V.C. multicavity hollow | | | | |
| ch | namber of 59mm x 30mm section with 2.0mm (+0.2mm) wall | | | | |
| | ickness suitable size and section will 2.5mm. wall thickness | | | | |
| | orozontal & Vertical section shall be fixed to each other by | | | | |
| | elf tapping screws and one solid polymetric/M.S. galvanised | | | | |
| | ubular Lshaped bracket 100mmx200mm in each corner of the otter frame for placing hinges. Polymer based multicavity | | | | |
| | bllow section of 120mm x 30mm with 2.0mm (+0.2mm) wall | | | | |
| | ickness will be placed in the middle, reinforced by solid | | | | |
| | olymer bar of 200mm long at bothends and screws from both | | | | |
| sid | des as lock rail. The section frame will then fitted in by PVC | | | | |
| 1. | anels of size 100mmx25mm with wall thickness 1.2mm | | | | |
| 1 2 | .2mm) and 2 nos. of 6mm dia bright rod will be inserted | | | | |
| | prizontally with both side check and nut system and stretches | | | | |
| | here fixing of hinges / hasp bolt/tower bolt/door ring are equired to be strong enough to with stand wear and tear. The | | | | |
| | te is inclusive of cost of all materials, labour and hire of tools | | | | |
| | nd plants and appliencies. Carriage of all materials, taxes & | | | | |
| | l other incidental charges complete. The rate is exclusive of | | | | |
| co | ost of hings, hasp bolt, tower bolt, door ring etc. | per sqm. | 2.381 | 1892.31 | 4505.59 |
| | | | oxdot | | |

| SI. No. | Item | Unit | Quantity | Rate | Amount (Rs.) |
|---------|--|--------|----------|----------|--------------|
| 16.00 | Plaster (to wall, floor, ceiling etc.) with sand and cement | | | | , , |
| P319 | mortar i/c. rounding off or chamfering corners as directed and | | | | |
| 2 | ranking out joints or roughening of concrete surface, i/c. | | | | |
| | throating, nosing and drip course where necessary etc. [All | | | | |
| | Floors] | | | | |
| | (i) b) 15 mm. thick plaster with 6:1 cement mortar | sqm. | 108.540 | 116.29 | 12622.12 |
| | (i) c) 20 mm. thick plaster with 6:1 cement mortar | sqm. | 166.685 | 137.23 | 22874.18 |
| | (ii) c) 10 mm. thick plaster with 4:1 cement motar | sqm. | 54.163 | 105.36 | 5706.61 |
| 17.00 | Was developed to describe the form of the dead of the dead | | | | |
| 17.00 | Wood work in door and window frame fitted and fixed | | | | |
| P179 | complete including a protective coat of painting at the contact | | | | |
| 1 | surface of the frame. | | 0.457 | 60527.00 | 21772 04 |
| | e) Sal : Malayasian | cum. | 0.457 | 69527.00 | 31773.84 |
| 18.00 | Panel shutters of door and window, as per design (each panel | | | | |
| P227 | consisting of single plank without joint), i/c. fitting and fixing | | | | |
| 84 | the same in position but excluding the cost of hinge and other | | | | |
| | fittings (In case of nonsupply of single plank, panel rate of | | | | |
| | reduction to a maximum of 20% will be made) | | | | |
| | iv) 25mm thick shutter with 12mm thick panel of size 30 to 45 | | | | |
| | cm. | | | | |
| | b) Sisu, Gamar, Champ, Badam, Bhola, Mogra, Hallak | sqm. | 14.182 | 1835.06 | 26024.82 |
| 19.00 | Acrylic Distemper to interior wall, celling with a coat of solvent | | | | |
| P333 | based interior grade acrylic primer (as per manufacturer's | | | | |
| 10 | specification) including cleaning and smoothning of surface. | | | | |
| | | | | | |
| | Two coats | sqm. | 208.788 | 62.13 | 12972.00 |
| 20.00 | Applying decorative cement based paint of approved quality | | | | |
| P335 | after preparing the surface including scraping the same | | | | |
| 16 | thoroughly (plastered or concrete surface) as per manufacturer's | | | | |
| 10 | specification. | | | | |
| | In ground floor | | | | |
| | a) Two Coats | sqm. | 120.600 | 42.92 | 5176.15 |
| | | - 1 | | | |
| 21.00 | Priming one coat on timber or plasterd surface with synthetic | | | | |
| P343 | oil bound primer of approved quality including smoothening | | | | |
| 7. a | surfaces by sand papering etc. | sqm. | 34.830 | 30.65 | 1067.54 |
| 22.00 | Dianian and a Charles who are the large that are the large that are the large than the large tha | | | | |
| 22.00 | Priming one coat on Steel or other metal surface with synthetic | | | | |
| P343 | oil bound primerof approved quality including smoothening | cam | 12.061 | 24.98 | 201.20 |
| 7. b | surfaces by sand papering etc. | sqm. | 12.061 | 24.98 | 301.28 |
| 23.00 | Painting with best quality synthetic enamel paint of approved | | | | |
| P343 | make and brand i/c. smoothening surface by sand papering etc. | | | | |
| 8. A | i/c. using of approved putty etc. on the surfaces, if necessary : | | | | |
| | | | | | |
| | a) On timber or plastered surface with super gloss (Hi gloss): | | | | |
| | iv)Two coats (with any shade except white) | sqm. | 34.830 | 67.63 | 2355.55 |
| | | | | | |
| | b) For Steel or Metal Surface iv)Two coats (With any shade except white) | sqm. | 12.061 | 64.79 | 781.43 |
| | 1771 TO COULD (WHITE ONLY SHOULD CACCEPT WHITE) | oqiii. | 12.001 | TOTAL | 636598.03 |
| 24.00 | Water Supply & Sanitary Works (5% of Total cost) | | L.S. | | 31829.90 |
| | | | | | |
| 25.00 | Electrical installation (5% of Total cost) | | L.S. | | 31829.90 |
| | | | GRAND | TOTAL | 700258.00 |
| i e | 1 | | | | |



SOUTH BENGAL GR C SINGLE

| | PLINTH AREA OF QUAARTE- 475 SQ. FT. | | | | | | | |
|------------|---|---------------------------|---|------------------------|--|--|--|--|
| SL. No. | Description | Quantity | Rate | Amount (Rs.) | | | | |
| 1 | Earth Work in excavation of foundation trenches or drains in all sorts of soil (including mixed soil part excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75M as directed. The item includes necessary triming the sides of trenches levelling dressing and ramming the bottom bailing out water as required complete depth of excavation not exceeding 1500mm. | 40.69M³ | 9161.59/M³ | Rs. 3,728 | | | | |
| 2 | Filling or plinth by silver sand in layers not exceeding 150mm. As directed and consolidating same by thorough saturation with water ramming complete including the costs of supply of sand(payment to be made on basis of measurement of finished quantity of work) Foundation 5.81 M³ For Floor 19.66 M³ | Total 25.47M ³ | Rs. 43106.75/%M ³ @ Rs. /M ³ | Rs. 10,979.00 | | | | |
| 3 | Single BFS of picked Jhame bricks including ramming and dressing bed to proper level and filling joints with powdered earth or local sand For Foundation- 38.16 M2 For Flooring- 33.62 M2 | Total 71.78 | Rs. 276.00/M2 | Rs. 19,811.00 | | | | |
| 4 | 25mm thick damp proof course with cement concrete with stone chips (1:1:5:3) and ad mixture of water proofing compound as per manufactures specification followed by two coat of polymer based paint (cost of water proofing compound and polymer based paint). | 9.86m2 | Rs. 256.55/M2 | Rs. 2,529.00 | | | | |
| 5 | Cement concrete with graded stone ballast (40mm size) excluding shuttering (6:3:1) proportion in foundation | 5.81/M³ | Rs. 4052.36/M³ | Rs. 23,544.00 | | | | |
| 6 | Ordinary cement concreate (Mix 3:1:5:1) M-20 with graded stone chips (20mm down excluding shuttering and reinforcement if any in ground floor as per IS-456-2000) Pakur Variety. | 15.9M³ | Rs. 5525.25/M³ | Rs. 87,851 | | | | |
| 7 | Hire and labour charges for shuttering with centering and necessary stagging upto 4m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs beams colums lintels curved or straight including fitting fixing and striking out after completion of works (upto roof of ground floor) 25mm to 30mm thick wooden shuttering. | 38.08 M2 | Rs. 272.27/M2 | Rs. 10,368 | | | | |
| 8 | Reinforcement for reinforced concrete work in all sorts of structures including distribution bard striups binders etc including supply of rods initial straightening & removal of loose rust (necessary) cutting to requisite length, hooking & bending to correct shape placing in proper position & binding with 16 gauge black annexed wire at every inter section complete as per drawing & direction for works in foundation basement and upto roof of ground floor / upto 4m (toe steel / Mild steel) | 0.58 MT | Rs. 59696/MT | Rs. 34,624 | | | | |
| 9 | Brick work 1st class brick in cement mortar (6:1) | 29.20M³ 26.63M³ | Rs. 4467.75/M³ Rs. 4622.10/M³ | Rs.130458 Rs.123087 | | | | |
| 10 | M.S. or W.I ornamental grill of approved dessign joints continuously welded with M.S or W.I flats and bars for windows rallings etc fitted and fixed with necessary screws and lugs in ground floor | 1.04 Qnt. | Rs 6674.79/Quintal | Rs. 6,942 | | | | |

| 11 | Iron butt hings of approved quality fitted and fixed with steel screws with IST mark | D-36 Nos W-124 NOS | Rs. 41.12/each (100mmX50mmX1.2m m) | Rs. 1480 Rs. 3176 |
|----|--|--|--|-----------------------|
| 12 | Iron socket bolt of approved quality fitted and fixed complete door. | Door-150mm X 10 mm dia bolt 6 Nos Window- 75 mm X 10 | Rs. 58.33/each Rs. 32.15/each | Rs. 350 Rs. 321 |
| 13 | Iron Door ring of approved quality fitted fixed with not and waster complete | (50 mm) 10 Nos | Rs. 16.99 / each | Rs. 170 Rs. 459418 |
| 14 | Alluminium D type A and E of approved quality with continuous plate base (hexa genal/Round rod) | 100 grip X 10 mm dia rod 6 Nos | Rs. 72.20/each | Rs. 433 |
| 15 | Iron hasp bolt | 16mm dia rod 200 mm long 6 Nos | Rs. 143.84/each | Rs. 863 |
| 16 | Plaster (to wall floor, ceilling etc) with sand & cement morter including rounding off or chamfering corners as directed and racking out joints includings throatings nosing and drief corse scaffolding / stagging where necessary ground floor (excluding cost of chipping over concrete surface | 1) 20mm thick (1:6) inside wall 163.87m2 ii) 10mm (1:4) for ceiling 33.62 m2 iii) 15mm thick (1:6) outside wall 133.03 m2 | Rs. 107.31/m2 Rs. | Rs. 14,275 |
| 17 | Wood work in door and window frames including fitted & fixed in position complete including a protective coat of painting at the contract surface of the frame excluding cost of concrete iron butt hinges and M.S. clamps (the quantum should be corrected upto three decimal) | Local Sal Wood 0.55/M³ | Rs. 58109/M ³ | Rs. 31,960 |
| 18 | Penal shutter of Door and window as per design (each) penal consisting of single plank without joint including fitting and fixing the same in position but excluding the cost of hinges and other fittings. | 35 mm thick shutter with 19 mm thick panel Gamari wood 20.22m2 | Rs. 2422.07 m2 | Rs. 48,974 |
| 19 | Priming one coal of timber, or on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surface by sand papering etc. | Timber surface 40.44 m2 | Rs. 30.43/m2 | Rs. 1,231 |
| 20 | Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc including using of approved putty etc in the surface if necessary | Timber surface, steel surface 40.44 m2 | Rs. 61.30 m2 | Rs. 2,479 |
| 21 | 25mm Artificial stone in floor (4:2:1) | 30.08 m2 | Rs. 227.51/m2 | Rs. 6,842 |
| 22 | Colour washing with any shade with strainers as required including cleaning and smoothening surface thoroughly. | (Internal surface (two coats) 197.49m2 | Rs. 1502.03/%m2 | Rs. 2,966 |
| 23 | Applying decorative cement based paint of approved quality after preparing the surface including scraping the same throughly | (Two coat) 133.03 m2 | Rs. 42.64/m2 | Rs. 5,672 |
| | Adding 3% Contingency (+) | • | Rs. Rs. | 599014 17970 |
| | | | Dc | 616984 |

Rs. 599014
Rs. 17970
Rs. 616984
Rs. **620,000.00**

GRAND TOTAL

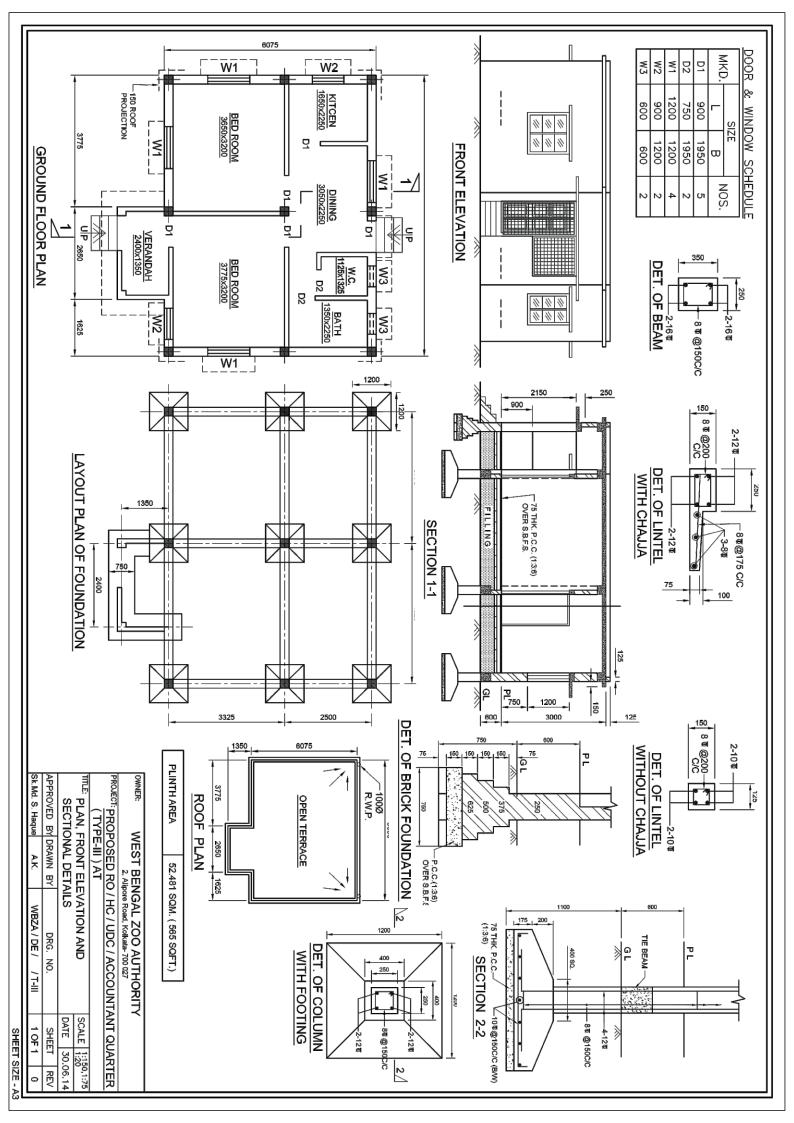
| SI. No. | ltem | Unit | Quantity | Rate | Amount (Rs.) |
|--------------------|--|------|----------|----------|--------------|
| 1.00 P1 2 | Earth work in excavation of foundation trenches or drains, in all sorts of soils (including mixed soil but excluding laterite or sandstone) i/c. removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches. Levelling, dressing and ramming the bottom, bailing out water etc. as required complete | | | | |
| 2.00 P3 3 | a) Depth of excavation not exceeding 1500 mm. Earth work in filling in foundation trenches or plinth with good earth in layers not exceeding 150 mm. including water and raming etc. layer by layer complete. (Payment to be made on basis of | cum. | 14.252 | 92.21 | 1314.18 |
| | measurment of finished quantity of work). a) With earth obtained from excavation of foundation | cum. | 2.850 | 59.50 | 169.58 |
| 3.00 P5 4 | A. Filling in foundation or plinth by silver sand in layers not exceeding 150 mm. as directed and cosolidating same by thorough saturation with water raming complete including the cost of supply of sand. (Payment will be made on profile measurment before and after work) | cum. | 11.655 | 728.81 | 8494.28 |
| 4.00 P33 | Single brick flat soling of picked jhama bricks i/c. ramming and dressing bed to proper level and filling joints with | | | | |
| 5.00 P59 | powdered earth or local sand Cement concrete with graded stone bllast (40 mm size excluding shuttring) | sqm. | 30.255 | 340.00 | 10286.70 |
| 6.00 | A) Pakur Variety a) 1:3:6 proportion OrdinaryCement Concrete M20 (mix 3:1.5:1) with graded stone | cum. | 4.134 | 4376.78 | 18093.61 |
| P39 7 | chips (20 mm down) excluding shuttring and reinforcement if any, in ground floor. As per relevant IS coads. a) Pakur Variety i) In Gr. floor | cum. | 14.510 | 5959.09 | 86466.40 |
| 7.00 P63 12 | Hire and labour charges for shuttering with centering and necessary staging upto 4 m. using approved stout props and thick hard wood planks of approved thickness with required bracing for concretes slabs, beams, columns, lintels curved or straight i/c. fitting, fixing and striking out after completion of works (In all floor) a)25mm.to 30 mm. thick wooden shuttering as per decision & direction of the engineer incharg e | | | | |
| 8.00 P65 15 | i) In ground floor Reinforcement for reinforced concrete work in all sorts of structures i/c. distribution bars, stirrups, binders etc. including supply of rods, straightening and removal of loose rust (if necessary) cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction (For all floors) i) Tor steel/Mild steel | sqm. | 142.199 | 286.99 | 40809.69 |
| 9.00 | i) In ground floor Brick work with 1st class bricks in cement morter(1:6) | M.T. | 1.139 | 69334.00 | 78971.43 |
| P69 22 | a) In foundation and plinth | cum. | 16.771 | 4999.00 | 83838.23 |
| 10.00 P73 29 | 125 mm. thick brick work with 1st class bricks in cement mortar (4:1) | | | | |
| 11.00 | i) In Gr. floor Artificial stone in floor, dado, staircase etc. with cement | sqm. | 33.060 | 677.00 | 22381.62 |
| P91 3 | concrete (1:2:4) with stone chips, laid in panels as directed with toping made with ordinary or white cement (as necessary)and marble dust in proportion (1:2) including smooth finishing and rouding off corners and including raking out joints or roughening of concrete surface and application of cement slurry before flooring works, using cement @ 1.75 kg/sq.m. all complete including all materials and labour. In ground floor 3 mm thick topping (High polishing grinding on this item is not permited with ordinary cement. | | | | |
| | Using grey cement ii) 25 mm thick | sqm. | 27.424 | 236.56 | 6487.42 |

| | T | | | | |
|----------------------|--|----------|----------|----------|--------------|
| Sl. No. 12.00 | Item Supplying, fitting and fixing1st quality porcelain tiles of any | Unit | Quantity | Rate | Amount (Rs.) |
| P111 | size in walls & floors I/c borders to match with the existing | | | | |
| 30.B. | work ,set in sand cement morter (4:1) including backing | | | | |
| (a) (ii) | concrete (1:2:4)&4 nos.of key stone (10mm.) fixed with araldite | | | | |
| | at the back of each tile &finishing the joints with colouring | | | | |
| | oxide (if requested) to match the colour of tile. ii) other than white | | | | |
| | in ground floor | sgm. | 23.583 | 674.93 | 15916.87 |
| | | | | | |
| 13.00 | M.S. or W.I. ornamental grill or approved design joint | | | | |
| P155 | continuously welded with M.S., W.I. flates and bars for | | | | |
| 10.a) | windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor. | | | | |
| | a) Grill weighing above 10 kg./sqm. Upto 16 kg./sqm. | kg | 138.919 | 67.01 | 9308.96 |
| | | | | | |
| 14.00 | Supplying, fitting and fixing in position approved P.V.C. door | | | | |
| P299 154 | frame (matt finish) made from extruded P.V.C. multichamber hollow section having dimensions 60 mm. x 50 mm. x 2mm | | | | |
| 134 | (+0.2mm) horizontal section will be joined with vertical section | | | | |
| | by galvanised steel screws after inserting two number steel | | | | |
| | brackets as reinforcement making suitable space for placing | | | | |
| | hinges, one steel tube 40 mm. x 20 mm. x 1.20mm will be | | | | |
| | inserted on one full vertical side of the frame (hinge side) as | | | | |
| | reinforcement, the frame will then be fixed in the opening with the help of P.V.C. expandable fastner and steel screws | | | | |
| | including cost of all materials and labour hire charges of tools | | | | |
| | and appliances, carriage of all materials, taxes & all other | | | | |
| | incidental charges complete. | Mtr. | 5.400 | 252.70 | 1364.58 |
| 45.00 | DV6 D | | | | |
| 15.00 P301 | PVC Door Shutter 30mm thick Supplying, fitting and fixing P.V.C. door shutter of approved | | | | |
| 155(B) | quality and shade in position, the style and rail of the P.V.C. | | | | |
| , , | door shutter will be made of rigid P.V.C. multicavity hollow | | | | |
| | chamber of 59mm x 30mm section with 2.0mm (+0.2mm) wall | | | | |
| | thickness suitable size and section will 2.5 mm. wall thickness | | | | |
| | Horozontal & Vertical section shall be fixed to each other by | | | | |
| | self tapping screws and one solid polymetric/M.S. galvanised tubular Lshaped bracket 100mmx200mm in each corner of the | | | | |
| | shtter frame for placing hinges. Polymer based multicavity | | | | |
| | hollow section of 120mm x 30mm with 2.0mm (+0.2mm) wall | | | | |
| | thickness will be placed in the middle, reinforced by solid | | | | |
| | polymer bar of 200mm long at both ends and screws from both | | | | |
| | sides as lock rail. The section frame will then fitted in by PVC panels of size 100mmx25mm with wall thickness 1.2mm | | | | |
| | (0.2mm) and 2 nos. of 6mm dia bright rod will be inserted | | | | |
| | horizontally with both side check and nut system and stretches | | | | |
| | where fixing of hinges / hasp bolt/tower bolt/door ring are | | | | |
| | required to be strong enough to with stand wear and tear. The | | | | |
| | rate is inclusive of cost of all materials, labour and hire of tools | | | | |
| | and plants and appliencies. Carriage of all materials, taxes & all other incidental charges complete. The rate is exclusive of | | | | |
| | cost of hings, hasp bolt, tower bolt, door ring etc. | per sqm. | 1.191 | 1892.31 | 2253.74 |
| | | | | | |
| 16.00 | Plaster (to wall, floor, ceiling etc.) with sand and cement | | | | |
| P319 | mortar i/c. rounding off or chamfering corners as directed and | | | | |
| 2 | ranking out joints or roughening of concrete surface, i/c. throating, nosing and drip course where necessary etc. [All | | | | |
| | Floors] | | | | |
| | (i) b) 15 thirty all-through C1 | | 02.000 | 116.20 | 10001 02 |
| | (i) b) 15 mm. thick plaster with 6:1 cement mortar | sqm. | 92.880 | 116.29 | 10801.02 |
| | (i) c) 20 mm. thick plaster with 6:1 cement mortar | sqm. | 124.538 | 137.23 | 17090.35 |
| | (ii) c) 10 mm. thick plaster with 4:1 cement motar | sqm. | 38.314 | 105.36 | 4036.76 |
| | | ' | | | |
| 17.00 | Wood work in door and window frame fitted and fixed | | | | |
| P179 | complete including a protective coat of painting at the contact | | | | |
| 1 | surface of the frame. e) Sal : Malayasian | cum. | 0.430 | 69527.00 | 29896.61 |
| | | lean. | 5.450 | 3327.00 | 25050.01 |
| 18.00 | Panel shutters of door and window, as per design (each panel | | | | |
| P227 | consisting of single plank without joint), i/c. fitting and fixing | | | | |
| 84 | the same in position but excluding the cost of hinge and other | | | | |
| | fittings (In case of nonsupply of single plank, panel rate of reduction to a maximum of 20% will be made) | | | | |
| | iv) 25mm thick shutter with 12mm thick panel of size 30 to 45 | | | | |
| | cm. | | | | |
| | b) Sisu, Gamar, Champ, Badam, Bhola, Mogra, Hallak | sqm. | 13.304 | 1835.06 | 24413.64 |

| SI. No. | ltem | Unit | Quantity | Rate | Amount (Rs.) |
|---------------|---|------|----------|-------|--------------|
| | Acrylic Distemper to interior wall, celling with a coat of solvent | | | | |
| | based interior grade acrylic primer (as per manufacturer's | | | | |
| 10 | specification) including cleaning and smoothning of surface. | | | | |
| | Two coats | sqm. | 151.961 | 62.13 | 9441.34 |
| 20.00 | Applying decorative cement based paint of approved quality | | | | |
| P335 | after preparing the surface including scraping the same | | | | |
| 16 | thoroughly (plastered or concrete surface) as per manufacturer's specification. | | | | |
| | In ground floor | | | | |
| | a) Two Coats | sqm. | 103.770 | 42.92 | 4453.81 |
| 21.00 P343 | Priming one coat on timber or plasterd surface with synthetic oil bound primer of approved quality including smoothening | | | | |
| 7. a | surfaces by sand papering etc. | sqm. | 32.670 | 30.65 | 1001.34 |
| | | • | | | |
| | Priming one coat on Steel or other metal surface with synthetic | | | | |
| | oil bound primer of approved quality including smoothening | | | | |
| 7. b | surfaces by sand papering etc. | sqm. | 9.923 | 24.98 | 247.88 |
| P343 | Painting with best quality synthetic enamel paint of approved make and brand i/c. smoothening surface by sand papering etc. i/c. using of approved putty etc. on the surfaces, if necessary : | | | | |
| | a) On timber or plastered surface with super gloss (Hi gloss): | | | | |
| | iv)Two coats (with any shade except white) | sgm. | 32.670 | 67.63 | 2209.47 |
| | , | | | | |
| | b) For Steel or Metal Surface | | | | |
| | iv)Two coats (With any shade except white) | sqm. | 9.923 | 64.79 | 642.91 |
| | | | | TOTAL | 490392.40 |
| 24.00 | Water Supply & Sanitary Works (5% of Total cost) | | L.S. | | 24519.62 |
| 25.00 | Electrical installation (5% of Total cost) | | L.S. | | 24519.62 |
| | | | GRANI | TOTAL | 539432.00 |

| SI No. | Description | Quantity | Unit | Rate per unit | Amount (Rs.) |
|-----------|--|----------|----------|---------------|--------------|
| | Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the soils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. In ground floor. PWD sch. page no-1 sino-2(a) | 29.25 | m3 | 120.47 | 3,523.75 |
| 2 | Filling the foundation of plinth by fine sand in layer sonly for column foundation as directed and consolidating same by through saturation with water rammig completed including the cost of supply of sand for ground floor only. PWD sch. page no-2 sino-4(a) | 4.17 | m3 | 390.29 | 1,627.51 |
| 3 | Single brick flate soling of picked Jhama brick including ramming and dressing bed to proper level and filling Joint with powdered earth or local sand for colum ground floor only PWD sch. Page no 11, sino-1 | 25 | m2 | 308 | 7,700.00 |
| 4 | Cement concret with graded stone ballast (40MM size excluding shuttering (6:3:1)proportion in foundation. PWD sch. Page no-24 sino-10(a) | 4.16 | m3 | 5314 | 22,106.24 |
| 5 | Brick work with 1st class bricks in cement moter (6:1) | | | | |
| | I) Plinth. PWDsch. Page no-29 sino-22(a) | 30 | m3 | 4835 | 145,050.00 |
| | II) In superstructure PWD sch. Page no-29 sino-22 (b) | 20 | m3 | 5060 | 101,200.00 |
| 6 | 25 mmthik damp proof withcement concrete (4:2:1) (with graded stone aggregate 10 mm Normal size) and painting the top surface with a coat of bitumen using 1.7 kg per sqm including heating the bitumen and cost and carriage of all materials complete PWD sch page no-45 sino- 12 | 8 | m2 | 297 | 2,376.00 |
| 7 | Nominial Max M-20 cement concrete with graded stone chips (20 min size) excluding shuttering and reinforcement if any in ground floor (1:1:5:3) prog. PWD sch page no-14 sino-7(iv) | 6.9 | m3 | 6500.71 | 44,854.90 |
| 8 | Hire and labour charges for shuttering with centreing and necessary staging upto 4m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works. (upto roof of ground floor) (a) 25 mm to 30mm thick wooden shuttering as per decision & direction of Engineer -in-charge PWD sch. Page no. 26 sino-12(a) | 45 | m2 | 343 | 15,435.00 |
| 9 | Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary) cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge annealed wire at every intersection, complete as per drawing and direction @ 1.0% of m20 concrete entire part of 1st floor and extension part of gr. floor PWD scg page no- 27 sino-15(a) (i) | 0.44 | МТ | 68359 | 30,077.96 |
| | Plaster (to a wall floor celling with sand and cement moter including rounding off qrchanfering | | | | 3,275.00 |
| 10 | comes as directed and ranking out joints or rougening of concrete surface including throating nosing and drip course where necessary (first floor) excluding cost of chipping over concrete surface for extension part ofd gr. floor and entire part of 1st floor (a) 10mm thick plaster (1:4) to celling PWD sch page no- 151 sino-2(c)(i) | 25 | m2 | 131 | 5,275166 |
| 10 | nosing and drip course where necessary (first floor) excluding cost of chipping over concrete surface for extension part ofd gr. floor and entire part of 1st floor (a) 10mm thick plaster (1:4) | 25 90 | m2 m2 | 131 | 12,870.00 |

| | | | | 1 | I |
|-----------|--|----------|--------------------|---------------|-------------------------------|
| SI No. | Description | Quantity | Unit | Rate per unit | Amount (Rs.) |
| 11 | Artificial stone in floor, dado, staircase etc. with cement concrete (4:2:1) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (2:1) including application of cement slurry before flooring works, using cement @ 1.75 kg./sq.m all complete including all materials and labour.i) 35mm thik gr. floor PWD sch. page no-40 sino 3(III) | 23 | m2 | 355 | 8,165.00 |
| 12 | Wood work in door and window frame fitted and fixed complete including a protective coat of painting at the contact surface of the frame excluding cost of concrete, Iron butt hinges and M.S. clamps. [The quantum should be corrected upto three decimals]. (a) sal (Local) PWD sch. page no-85 sino 1(d) | 0.425 | m3 | 83652 | 35,552.10 |
| 13 | Z-batten shutters of door and window as per design havings tongued and groove-half lap jointed as per direction of the Engineer-in-charge including fitting and fixing shutter in position, but excluding the cost of hinges and other fittings in ground floor. PWD sch. page no- 112v sino 94A(I) | 14 | m2 | 3413 | 47,782.00 |
| 14 | M.s or W.I ornamental grill of approved deging joint contineously welded with M.S/W.I flats and bars for windows fitted and fixed with necessary screws and lugs in ground floor. (Grill weighting above 10kg up to 16 kg per sqm. PWD sch. Page no-76, sino-10 (II) | 1.14 | qut | 8857 | 10,096.98 |
| 15 | Iron but hinges of approved quality fitted and fixed with steel screws with ISI marks. Door 100 mm X 50 mm X 1.25mm. PWD sch. Page no 91, sino-20(vi) | 24 | each | 48 | 1,152.00 |
| | Windows size 75mmX40mmX1.20mm PWD sch. Page no 91, slno- 20(iii) | 96 | each | 31 | 2,976.00 |
| 16 | Iron socket bolt of approved quality fitted and fixed complete Door size 100 mm long X 10mm. Dia bobt. PWD sch. Page no 93, sino-25(b) | 6 | each | 45 | 270.00 |
| | Windows size 75 mm long X 10mm dia best PWD sch. Page no 93 sino-25(a) | 6 | each | 38 | 228.00 |
| 17 | Irondoor ring of approved quality fitted and fixing with nut and washer complete (A) window 50mm dla PWD sch pageno 98 sino 59(I) | 10 | each | 19 | 190.00 |
| 18 | Alluminium D type handle of approved quality with contineous plate base (hexagonal / round rod) 100mm grip X 10mm diagram PWD sch. Page no- 100, sino-65(ii) | 5 | each | 79 | 395.00 |
| 19 | Iron haps bolt with 16mm dia rod 300 mm long. PWD sch. Pasge no- 93, slno- 27 (i) © | 5 | each | 193 | 965 |
| 20 | Priming one coat on timber, surface with synthetic enarnel oil bound primer of approved quality including smoothening surface by sand papering etc. PWD sch. Page no- 162, sino-7(a) | 30 | m2 | 41 | 1,230.00 |
| 21 | Printing with best quality subsynthetic enamal paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface of necessary timber surface. Two coats other Higloss of approved quality. PWD sch. Page no- 162, sino-8(a) (ii) (iii) | 30 | m2 | 76 | |
| 22 | Color washing with any shed strainer as require including cleaning smoothening surface throughly internal surface two coat. Yellow / Pink. PWD sch. Page no- 155, sino- 5I(b)II | 153.36 | m2 | 21.57 | 3,307.98 |
| 23 | Septic Tank wirh sokewell | | Total C | | 25,000.00 548,546.41 |
| | | | Conting Grand 1 | | 1,454.00 550,000.41 |
| | | | Round | | 550,000.41 |
| | | I | unu | | 222,000.00 |



| Details estimated cost of Barrack at Nayagram, Hijli, Bardanga Beat of Kharagpur Division | | |
|--|---|---------------|
| This estimate follow as [er P.W.D. Schedule 2010 with corrigendum upto 2012 | | |
| Surface dressing of ground in any kind of soil including removing vegetation inequalities not exceeding 15 cm depth and disposal of the rubbish within a lead upto 75 m as directed. @ 6.45/m2 [Page No. 1, item No. 1] | 55.76 m2 | 360 |
| 2. Earth work in excavation of foundation trenches or drains, in all sorts (including mixed soil but excluding laterite or sand stone) including removing spreading or stacking the spoils within a lead of 75 m as directed. The item includes necessary trimming the side of trenches, leveling, dressing and ramming the bottom, bailing out water as required complete. a. Depth of excavation not exceeding 1.5m i. For column foundation 12 Nos x 1.3 x 1.3 x 1.2 @ 9221.30% m3 | 24.33 m3 | 2244 |
| 3. Filling in foundation or plinth by fine sand and in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water ramming complete including the cost of supply of sand. i. Column foundation- 175th total. ii. Hall- 3.66 x 7.679 x .425 iii. Kit & Ver- 2.525 x 2.525 x .425 iv. W.C 2 No. x 1.2 x 1.5 x .425 @ 46856.38 % m3 [Page No. 5, Item No. B] | 4.866 m3 11.912m3 2.709 m3 1.530 m3 21.018 m3 | 9848 |
| 4. Certain Concrete with graded stone bands (40 mm site excluding shuttering) (1.3.6) Pakul Variety ii. Column- 12 x 1.3 x 1.3 x 1.0 ii. Hall Room- 365 x 7.679 x .075 iii. Kit- 1.5 x 2.525 x .075 | 2.03 m3 2.10 m3 0.28 m3 0.170 m3 | Rs. 12.452.00 |
| iv. Passage90 x 2.525 x .075 v. WC- 2 x 1.2 x 1.5 x .075 | 0.270 m3 | |
| O 4400 05 (12) (D. 1. N. 50 H. 1. A) 40/A)(1) | 4.85 m3 | 2024.6 |
| @ 4188.85/m3 [Page No. 59, Item No. 10(A)(a)] 5. Supplying the laying polythene sheet (150 gm/ESQ) over damp proof course or below flooring | 20.28 m2 | 20316 |
| Strategy and the training portations street (130 girly 2500) over during proof course of scient mooning | 107.67 m2 | |
| @ 18.95 m2 [Page No. 99, Item No. 13] | | 2040 |
| 5. Supplying the laying polythene sheet (150 gm/ESQ) over damp proof course or below flooring or roof terracing on in foundation trenches 1. Column- 12 No. x 1.3 x 1.3 ii. Floor- 3.65 x .674 iii. Floor- 3.65 x .674 iii. Kit- 1.5 x 2.525 iv. Passage90 x 2.525 v. WC- 2 Nos. x 1.2 x 1.5 vi. Roof- 4.35 x 7.904 Do- 4.75 x 3.225 | 20.28 m2 28.03 m2 3.79 m2 2.27 m2 3.60 m2 34.38 m2 15.32 m2 | |
| Total | 107.67 m2 | |
| @ 18.95 m2 [Page No. 99, Item No. 13] | | 2040 |
| 6. Ordinary cement concrete (Mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any in ground floor as per relevant IS code I. Pakur Variety: i. Column footing- 12 No. x 1.3 x 1.3 x .15 Do- 12 x .60 x .60 x .30 | 3.042 m3 1.296 m3 2.813 m3 2.710 m3 | |
| ii. column- 12 Nos. x 3.75 x .25 x .25 iii. tie band- 36.13 x .30 x .25 iv. Partition beam (Near Kitchen) 3.025 x .25 x .25 v. Lintel= 29.458 x .25 x .15 Do- 9.9 x .125 x .15 | 0.189 m3 1.105 m3 0.186 m3 2.715 m3 3.437 m3 | |
| vi. Wall beam- 43.433 x .25 x .25 vii. Roof- 4.35 x 7.90 x.10 4.75 x 3.225 x .10 viii. chajja= 13.65 x .50 x .075 | 1.532 m3 0.512 m3 | |
| Total | 19.537 m3 | 110 |
| @ 5679.82/m3 [Page No. 39, Item No. (7)(1)] | | 110967 |

| 7. Hire and labour charges for shuttering with centering and necessary staging upto 4 m using | | |
|---|---|--------------------|
| approved stout props and thick hard wood planks of approved thickness with required bracing | | |
| for concrete slab, beams and columns, lintels, curved or straight including fitting, fixing and | 34.38 m2 | |
| striking out after completion of works (upto roof of ground floor). | 15.32 m2 | |
| a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-in-charge. | 3.10 m2 | |
| 1. Roof Slab- 4.35 x 7.904 | 3.29 m2 | |
| Do- 4.75 x 3.225 | 6.50 m2 | |
| Side of Roof- 30.95 x .10 | | |
| Beam- 3 x 2 x 3.65 x .15 | 2.79 m2 | |
| Do- 2 x 2 x 10.829 x .15 | 6.50 m2 | |
| Do- 2 x 2 x 4.65 x .15 | 1.095 m2 | |
| Lintel- 2 x 10.829 x .15 x 2 | 2.790 m2 | |
| 3.65 x .15 x 2 | 6.825 m2 | |
| 2 x 4.65 x .15 x 2 | 1.500 m2 | |
| Chajja 13.65 x .50 Window Bottom | 0.900 m2 | |
| W-6No25 x 1 | 0.350 m2 | |
| W2- 4 No. x .25 x .9 | 1.00 m2 | |
| D- 1.4 x .25 | | |
| D1-4 x .25 | | |
| D1-4X.23 | | |
| | | |
| Total | 86.340 m2 | 22504 |
| 274.31 / m3 [Page No. 61, Item No. 12(a)] b25 mm to 3mm shuttering without staging in foundation | | 23684 |
| b25 mm to 3mm snuttering without staging in foundation Tie band- 36.13 x .30 x 2 side | 21.678 m2 | |
| | 1.263 m2 | |
| Beam- 2.525 x .25 x 2 side | | ļ., |
| 0.470.07/.070 | 22.941 m2 | |
| @ 173.37/m2 [Page No. 61, Item No. 12(f) | | 3977 |
| 9. Bainforcement for rainforced concrete work in all carts of structures including distribution | | |
| 8. Reinforcement for reinforced concrete work in all sorts of structures including distribution | | |
| bars, stirrups, binders etc., initial straightening and removal of loose rust (if necessary) cutting to | | |
| requisite length, hooking and bending to correct shape, placing in proper position and binding | 4751 | |
| with 16 gauge black annealed wire at every intersection complete as per drawing and direction. | 175 kg. | |
| a. For works in foundation, basement and upto roof of ground floor/upto 4 m. | 600 kg. | |
| I) Tor steel / mild steel | 400 kg. | |
| i. For base | 350 kg. | |
| ii. Column | 120 kg. | |
| iii. Tie band | 350 kg. | |
| iv. Wall beam | | |
| v. Lintel & Chajja | | |
| vi. Roof | | |
| | 1.005.847 | |
| @ 59762 / MT [Page 65, Item No. 15(a)(i) | 1.995 MT | 119225 |
| @ 337027 WIT [1 8ge 03, Item No. 13(a)(i) | | 119223 |
| | | |
| | İ | |
| 9. Brick work with 1st class bricks in cement mortar (1:6) | 1.083 m3 | |
| 9. Brick work with 1st class bricks in cement mortar (1:6) a. In foundation & Plinth | 1.083 m3 0.110 m2 | |
| · · · | 0.110 m2 | |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 | 0.110 m2 0.415 m3 | |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 | 0.110 m2 0.415 m3 0.126 m3 | |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 | |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 | 0.110 m2 0.415 m3 0.126 m3 | |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 | |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Peduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x .33 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x 3.3 Short wall- 1 No. x 3.65 x .25 x 3.3 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x .33 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 | 8121=00 |
| a. In foundation & Plinth Long wall - 2 Nos. x 10.829 x .25 x .20 Short Wall - 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall - 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall - 2 Nos. x 10.829 x .25 x 3.3 Short wall - 1 No. x 3.65 x .25 x 3.3 Do- 1 No. x 4.15 x .25 x 3.3 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x 3.3 Short wall- 1 No. x 3.65 x .25 x 3.3 Do- 1 No. x 4.15 x .25 x 3.3 Deduction | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 24.30 m3 2.269 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x 3.3 Short wall- 1 No. x 3.65 x .25 x 3.3 Do- 1 No. x 4.15 x .25 x 3.3 Deduction i) Column- 11 x 3.3 x .25 x .25 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x 3.3 Short wall- 1 No. x 3.65 x .25 x 3.3 Do- 1 No. x 4.15 x .25 x 3.3 Deduction i) Column- 11 x 3.3 x .25 x .25 Window(W) - 6 x .90 x 1.20 x .25 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 24.30 m3 2.269 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Peduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x 3.3 Short wall- 1 No. x 3.65 x .25 x 3.3 Do- 1 No. x 4.15 x .25 x 3.3 Deduction i) Column- 11 x 3.3 x .25 x .25 Window(W) - 6 x .90 x 1.20 x .25 Do W 4 x .75 x 1.20 x .25 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 24.30 m3 2.269 m3 1.620 m3 | 8121=00 |
| a. In foundation & Plinth Long wall - 2 Nos. x 10.829 x .25 x .20 Short Wall - 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall - 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall - 2 Nos. x 10.829 x .25 x 3.3 Short wall - 1 No. x 3.65 x .25 x 3.3 Do- 1 No. x 4.15 x .25 x 3.3 Deduction j Column-11 x 3.3 x .25 x .25 Window(W) - 6 x .90 x 1.20 x .25 Do W 4 x .75 x 1.20 x .25 Do W 4 x .75 x 1.20 x .25 D- 1 x 2.00 x .25 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 24.30 m3 2.269 m3 1.620 m3 0.900 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x 3.3 Short wall- 1 No. x 3.65 x .25 x 3.3 Do- 1 No. x 4.15 x .25 x 3.3 Deduction i) Column- 11 x 3.3 x .25 x .25 Window(W) - 6 x .90 x 1.20 x .25 Do W 4 x .75 x 1.20 x .25 Do W 4 x .75 x 1.20 x .25 Do T . 200 x .25 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 24.30 m3 2.269 m3 1.620 m3 0.900 m3 0.500 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x 3.3 Short wall- 1 No. x 3.65 x .25 x 3.3 Do- 1 No. x 4.15 x .25 x 3.3 Deduction i) Column- 11 x 3.3 x .25 x .25 Window(W) - 6 x .90 x 1.20 x .25 Do W 4 x .75 x 1.20 x .25 D- 1 x 2.00 x .25 D- 1 - 90 x 2.0 x .25 D- 90 x 2.0 x .25 V- 3 x .50 x .60 x .25 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 24.30 m3 2.269 m3 1.620 m3 0.900 m3 0.500 m3 450 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x 3.3 Short wall- 1 No. x 3.65 x .25 x 3.3 Do- 1 No. x 4.15 x .25 x 3.3 Deduction i) Column- 11 x 3.3 x .25 x .25 Window(W) - 6 x .90 x 1.20 x .25 Do W 4 x .75 x .10 x .25 D- 1 x 2.00 x .25 D- 1 x 2.00 x .25 U- 3 x .50 x .60 x .25 Lintel- 29.458 x .15 x .25 Lintel- 29.458 x .15 x .25 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 24.30 m3 2.269 m3 1.620 m3 0.900 m3 0.500 m3 450 m3 0.225 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x 3.3 Short wall- 1 No. x 3.65 x .25 x 3.3 Do- 1 No. x 4.15 x .25 x 3.3 Deduction i) Column- 11 x 3.3 x .25 x .25 Window(W) - 6 x .90 x 1.20 x .25 Do W 4 x .75 x 1.20 x .25 D- 1 x 2.00 x .25 D1- 90 x 2.0 x .25 D1- 90 x 2.0 x .25 V- 3 x .50 x .60 x .25 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 24.30 m3 2.269 m3 1.620 m3 0.900 m3 0.500 m3 450 m3 0.225 m3 1.105 m3 1.841 m3 | 8121=00 |
| a. In foundation & Plinth Long wall- 2 Nos. x 10.829 x .25 x .20 Short Wall- 1 No. x 3.65 x .15 x .20 Do- 2 Nos. x 4.15 x .25 x .20 Portion wall- 1 No. x 2.525 x .25 x .20 Deduction for column 12 Nos. x .25 x .25 x .20 @ 5127.15/m3 [Page No. 69, Item No. 22(a)] b. In super structure. Gr. Floor Long Wall- 2 Nos. x 10.829 x .25 x 3.3 Short wall- 1 No. x 3.65 x .25 x 3.3 Do- 1 No. x 4.15 x .25 x 3.3 Deduction i) Column- 11 x 3.3 x .25 x .25 Window(W) - 6 x .90 x 1.20 x .25 Do W 4 x .75 x 1.20 x .25 D- 1 x 2.00 x .25 D-1 x 2.00 x .25 U- 30 x .20 x .25 U- 30 x .60 x .25 Lintel- 29.458 x .15 x .25 Lintel- 29.458 x .15 x .25 | 0.110 m2 0.415 m3 0.126 m3 1.734 m3 (-) 0.150 m3 1.584 m3 17.87 m3 3.01 m3 3.42 m3 24.30 m3 2.269 m3 1.620 m3 0.500 m3 0.500 m3 450 m3 0.225 m3 1.105 m3 | 8121=00 8121=00 |

| 10. 125 mm thick brick work with 1st class bricks in cement mortar (1:4) in ground floor 9.99 x 3.00 Deduction: D90 x 2 D2- 3 x .75 x 2 @ 697.20/m2 [Page No. 73, Item No. 29] 11. 25mm damp proof coursae with cement concrete with stone chips (1:1:5:3) 36.133 x .25 @ 171.89/Sqm [Page No. 99, Item No. (11) 12. Wood work in door and window frame fitted and fixed in powition complete including a protective cost of painting at the contract surface of the frame excluding cost of concrete, iron | 29.7 m2 1.80 m2 4.50 m2 (-) 6.30 m2 | 23.40 m2 16314.08 |
|---|--|----------------------|
| 9.99 x 3.00 Deduction: D90 x 2 D2-3 x .75 x 2 @ 697.20/m2 [Page No. 73, Item No. 29] 11. 25mm damp proof coursae with cement concrete with stone chips (1:1:5:3) 36.133 x .25 @ 171.89/Sqm [Page No. 99, Item No. (11) 12. Wood work in door and window frame fitted and fixed in powition complete including a | 1.80 m2 4.50 m2 (-) 6.30 m2 | |
| D90 x 2 D2- 3 x .75 x 2 @ 697.20/m2 [Page No. 73, Item No. 29] 11. 25mm damp proof coursae with cement concrete with stone chips (1:1:5:3) 36.133 x .25 @ 171.89/Sqm [Page No. 99, Item No. (11) 12. Wood work in door and window frame fitted and fixed in powition complete including a | 4.50 m2 (-) 6.30 m2 | |
| @ 697.20/m2 [Page No. 73, Item No. 29] 11. 25mm damp proof coursae with cement concrete with stone chips (1:1:5:3) 36.133 x .25 @ 171.89/Sqm [Page No. 99, Item No. (11) 12. Wood work in door and window frame fitted and fixed in powition complete including a | 4.50 m2 (-) 6.30 m2 | |
| @ 697.20/m2 [Page No. 73, Item No. 29] 11. 25mm damp proof coursae with cement concrete with stone chips (1:1:5:3) 36.133 x. 25 @ 171.89/Sqm [Page No. 99, Item No. (11) 12. Wood work in door and window frame fitted and fixed in powition complete including a | | |
| 11. 25mm damp proof coursae with cement concrete with stone chips (1:1:5:3) 36.133 x .25 ② 171.89/Sqm [Page No. 99, Item No. (11) 12. Wood work in door and window frame fitted and fixed in powition complete including a | | |
| 11. 25mm damp proof coursae with cement concrete with stone chips (1:1:5:3) 36.133 x .25 ② 171.89/Sqm [Page No. 99, Item No. (11) 12. Wood work in door and window frame fitted and fixed in powition complete including a | 9.033 m2 | 16314.08 |
| stone chips (1:1:5:3) 36.133 x .25 ② 171.89/Sqm [Page No. 99, Item No. (11) 12. Wood work in door and window frame fitted and fixed in powition complete including a | 9.033 m2 | 1 |
| 36.133 x .25 @ 171.89/Sqm [Page No. 99, Item No. (11) 12. Wood work in door and window frame fitted and fixed in powition complete including a | 9.033 m2 | |
| 171.89/Sqm [Page No. 99, Item No. (11) 12. Wood work in door and window frame fitted and fixed in powition complete including a | | 9.033 m2 |
| 12. Wood work in door and window frame fitted and fixed in powition complete including a | | 1553 |
| · · · · · · · · · · · · · · · · · · · | | 1333 |
| protective cost of painting at the contrast surface of the frame evaluating cost of concrete in | | |
| protective cost or painting at the contract surface of the frame excluding cost of concrete, fron | | |
| Butt hinges and M.S. clamp (the quantum should be corrected upto three decimals) | 0.044 m3 | |
| Sal(Local) Door 5.9 x .075 x .10 | 0.189 m3 0.117 m3 | |
| W- 6 nos. x 4.2 x .075 x .10 | 0.117 ms 0.050 m3 | |
| W1- 4 Nos. x 3.9 x .075 x .10 | 0.0505 | |
| V- 3 Nos. x 2.2 x .075 x .10 | | |
| | | |
| O F0000 00/20 [December 470 Heaville 4/10] | 0.400 m3 | 20010 55 |
| @ 58283.00/m3 [Page No. 179, Item No. 1(d)] | | 23313=00 |
| 13. a) Iron butt hinges of approved quality fitted & fixed with steel screw with I.S.I. mark | 9 Nos | |
| ix) 100 mm x 75mm x 3.50 mm | 2 | |
| @ 68.74/each [Page No. 191, item No. 20(VII) | | 619 |
| b) Do 75 mm x 40 mm x 1.12 mm | 40 Nos. | |
| @ 25.76/each [Page No. 191, item No. 20 (iii) | | 1030 |
| 14. Supplying fitting and fixing M.S. clamps for door and window frame made of flat bent bar, end | | |
| bifurcated with necessary screws etc. by cement concrete (1:2:4) as per direction (cost of | 56 Nos. | |
| concrete will be paid separately) | | |
| 44mm x 6mm x 200 mm length | | |
| @ 29.84/each [Page No. 189, Item No. 18(b)] | | 1671 |
| 15. Iron socket bolt of approved quality fitted and fixed complete | 12 Nos. | |
| 300 mm long x 10 mm dia bolt | | |
| @ 100.68/each [Page No. 197 Item No. 25(e)] | | 1208 |
| 16. Iron hasp bolt of aproved quality fitted and fixed complete (oxidized) with 16 Nos. dia rod | | |
| with cement bolt and round fitting. 300 mm long | 2 Nos. | |
| 182.91/each [Page No. 199, Item No. 27©] | | 366 |
| | | 300 |
| 17. Iron door handle or approved quality fitted and fixed complete 150 mm x 5.5 mm | 12 Nos. | |
| | | |
| @ 46.13/each [Page No. 217, Item No. 70(II) | | 554 |
| 18. Labour for chipping of concrete surface before taking up plastering work. | 49.69 Sqm | |
| @ 14.40/m2 [Page No. 319, Item No. 1] | | 716 |
| b. Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or | | |
| chamfering corners as directed and taking out joints including throating, noising and drip course, | | |
| sea holding/staging where necessary. | 82.30 m2 35.34 m2 | |
| With (1:6) cement morter with 20 mm th. | 6.50 m2 | |
| OUtside 2 x 10.829 x 3.8 | 2.79 m2 | |
| 2 x 4.65 x 3.8 Parapet Wall inside 2 x 10.829 x .30 | 5.41 m2 | |
| Top surface 2 x 10.829 x .25 | 2.33 m2 | |
| 2 x 4.65 x .25 | | |
| | 134.670 m2 | |
| Inside Wall | | |
| Hall Room 2(3.65+7.679)x3 | 67.97 m2 | |
| | | 429424 |
| Kitchen 2(2.525 + 1.5) x 3 | 24.5 m2 | |
| Bath Room 2(1.2 + 1.5) x 3 x 2 Nos. | 32.40 m2 | |
| Passage 2 x (.90 + 2.525) x 3 | 20.55 m2 | 1 |
| | 145.07 m2 total | 279.740 m2 |
| | | 2,3,, 40 1112 |
| Deduction | | + |
| D 1x1x2= | 2 m2 | |
| D1 .9 x 2 = | 1.80 m2 | |
| W1 6 Nos. x .75 x 1.2 = | 6.48 m2 3.60 m2 | |
| W2 4 nos. x .75 x 1.2= | 0.90 m2 | |
| | 3.00 m2 | |
| V 3 Nos. x .60 x .50 = | | i . |
| | 17 70 m2 | + |
| V 3 Nos. x .60 x .50 = | 17.78 m2 261.960 m2 | - |

| c. 15 mm th plaster with (1:4) on R.C.C surface | 18.03 m2 | |
|--|--------------------|-------|
| i. Room 3,65 x 7.679= | 3.79 m2 | |
| ii. Kitchen 2,525 x 1.5= | 2.27 m2 | |
| iii. Passage .90 x 2.525= iv. Bathroom 1.2 x 1.5 x 2= | 3.60 m2 | |
| v. Chajja 13.65 x .50 x 2= | 13.65 m2 | |
| | F1 24 2 | |
| @ 128.65/m2 [Page No. 319, Item No. 2(ii)(b)] | 51.34 m2 | 6605 |
| | | |
| 20. Z-batten shutters of door & window as per design having tongued and groove-half lab joined | | |
| as per direction of the Engineer-in-charge including fitting and fixing shutter in position, but | | |
| excluding the cost of hinges and other fittings in ground floor. b. Shutter with 19 m thick planks, 19 mm thick batteni. | 2.0 m2 | |
| i. Sal Local | 1.80 m2 | |
| D= 1x2 = | 6.48 m2 | |
| D1= .9 x 2 = | 3.60 m2 | |
| W= 6 x .90 x 1.2= | | |
| W2= 4 x .75 x 1.2= | | |
| | 13.88 m2 | |
| @ 2025.89/m2 [Page No. 243, Item No. 94(B)I] | | 28119 |
| 21. M.S or W.I. ornamental grill of approved design joints continuously welded with M.S. W.I. | | |
| flats and bars of windows, railing etc. fitted and fixed with necessary screw and lugs in ground | | |
| floor. | 6.48 Sqm | |
| i. Grill weighing above 10 kg/sqm and upto 16 kg/m | 3.60 Sqm | |
| W= 6x.90x1.2= | 0.90 Sqm | |
| W1= 4x.75x1.2 V= 3x.6x.5 | | |
| V- JA.UA.J | | |
| @ 67.01/Kg. [Page No. 155, Item No. 10(a)(i) | 10.98 Sqm | 7371 |
| @ 67.01/kg. [Page No. 155, Item No. 10(a)(i) | | /3/1 |
| 22. Artificial stone in floor, dado, stair case etc. with cement concrete (1:2:4) with stone clips, laid | | |
| in panels as directed with tapping made with ordinary or with cement (as necessary) and marble | | |
| dust in proportion (1:2) including smooth finishing and rounding off corners including raking out | | |
| joints or roughening of concrete surface and appliction of cement slurry before flooring works | | |
| using cement @ 1.75 kg/Sqm all complete including all materials and labour in ground floor 3 mm | 28.03 m2 | |
| thick topping (High polishing grinding on this item is not permitted with ordinary cement) | 3.79 m2 | |
| ii. 25 mm thick | 2.27 m2 3.60 m2 | |
| Room 3.65 x 7.679 = | 3.00 1112 | |
| Kitchen 2.525 x 1.5= | | |
| Passage .90 x 2.525 = | | |
| Bathroom 2 x 1.2 x 1.5 = | | |
| | | |
| Q 220 72/m2 [Dags No. 04 Jases No. 2 /III] | 37.69 m2 | 0021 |
| @ 228.73/m2 [Page No. 91, Item No. 3 (II) | | 8621 |
| 23. Applying decorative cement based paint of approved quality after preparing the surface | | |
| inclduing scraping the same thoroughly (plastered or concrete surface) as the manufacturer's specification in Ground Floor. | 130.52 m2 | |
| C. Two Coat | | |
| | | 5000 |
| @ 47.92/m2 [Page No. 335, Item No. 16 (III) | | 5602 |
| 24. Inside white washing inclduing cleaning smoothening surface thorouoghly a. Three coats | 279.72 m2 | |
| @ 1363.50/% sgm [Page No. 329, Item No. 3 | | 3814 |
| | | 12-1 |
| 25. Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surface by sand papering etc. | 5.20 m2 | |
| D= 1x2x2.6= | 4.68 m2 | |
| D1= 1 x .9 x 2 x 2.6= | 16.85m2 9.36 m2 | |
| W= 6 x .90 x 1.2 x 2.6= | 6.48 m2 | |
| W1= 4x.75x1.2x2.6= | 3.60 m2 | |
| Grill W= 6 x .90 x 1.2 x 1= | 0.90 m2 | |
| W1= 4 x .75 x 1.2 x 1 V= 3x.5x.6x1 | | |
| - 5/15/10/12 | 40.00 - | |
| @ 24.98/m2 [Page No. 343, Item No. 7(a)] | 10.98 m2 | 274 |
| | | 2/7 |
| 26. Painting with best quaqlity synthetic enamel paint of approved make and brand inclduing smoothening surface by sand preparing etc. inclduing using of approved putty etc. on the surface | | |
| in necessary. | 10.980 m2 | |
| B. On steel or other metal surface with super gloss (hi-gloss) | | |
| iv. Two coat (with any shade except white) | | |
| @ 64.79/M2 [Page No. 343, Item No. 8(b)(iv)] | | 711 |
| a. On timber or plastered surface 2 | 36.090 m2 | 2441 |
| | | |
| | | |

| 27. P.V.C. door shutter- 37 mm thick supplying fitting and fixing P.V.C door shutter of approved quality & shade in position the style & rail of the P.V.C door shutter will be made of rigid P.V.C. multicavity hollow camber of 59 mm x 30 mm section with 20 mm (+ 0.2 mm) will thickness, horozontal & vertical section shall be fixed to each other by self topping screws and one solid polymeric/MS tubular galvanized L-shaped brackets 100 mm x 200 mm in each corner of the shutter frame for placing hinges. Polymer based multicavity hollow section of 120 mm x 30 mm with 2.0 mm (+ 0.20 wall thickness will be placed in the middle reinforced by solod polymer bar of 200 mm long at ends & screws for both sides the section frame will then be fitted in by P.C.C. panels of size 100 mm x 25 mm with wall thickness 1.2 m (+0.2 mm) and 2 Nos. of .6 mm dia bright rod will be inserted. 3 Nos, x.75 x 2 | 4.5 m2 | |
|---|----------|-------------------------|
| @ 1892.31/m2 [Page No. 301, Item No. 155 (B) | | 8515 |
| 28. Supplying fitting & fixing factory made prelaminated PVC door frame of size 50 mm x 47 mm with a wall thickness of 5 mm made out of extruded 5 mm PVC sheet miter cut at two corners and joined with two Nos. of 1.5 mm long brackets of 15 mm x 1m mm M.S. square tube. The two vertical door profiles are to be reinforced with 19 mm x 1mm M.S. square tube of 19 gauge weather seal to be provided through out the frame. The door frame shall be fixed with the wall using 65/100 mm long M.S. screw through the frame by using PVC fasteners. A minimum of 4 Nos. of screws to be provided for each vertical member and minimum 2 Nos. for horizontal member etc,, complete as per manufacturer's specification and direction of Engineer-in-charge. | 14.25 RM | |
| @ 431.33/RM [Page No. 293, Item No. 150] | | 6146 |
| 29. Construction of septic tank of different capacities as per approved drawing with 1st class brick work in cement mortar (1:4) including two 560 mm dia R.C.C manhole cover (heavy type) of approved make supplied, fitted and fixed in the 100 mm thick R.C.C (1:1.5:3) top slab with necessary fittings 20 mm cement laster (4:1) with neat cement finish to the internal surfaces and 15 mm cement plaster (4:1) to outside wall upto 200 mm below G.L. floor finished with 25 mm grey artificail stone over 100 mm R.C.C. (1:1.5:3) bottom slab including supplying fitting and fixing all necessary species, fittings, S.W. tees, C.I. foot rest etc. including excavation earth in al;l sorts of soil shoring bailing out and pumping out water as necessary ramming dressing the bed and fitting the sides of the tanks with earth, removing foreign materials from the chamber and inclduing constructing attached inspection pit as per approved drawing and connection all necessary pipes joints etc. with internal plaster work and artificial stone flooring is to be done with admixture of water proofing compound @ 0.5% by weight of cement with all costs of labour and materials. ii. For 10 user | | |
| costs of labour and materials | | |
| ii. For 10 user | | |
| @ 32926.00/each [Page No. 83, item No. 3(i) | | 32926 |
| 3. Construction of circular soak well 2.5 M deep in all types of sandy soil with dry B/W upto 1.60 M from the bottom having 150 mm intermediate cement B/W (4:1) band all round and cement B/W (4:1) upto 0.90 M from top with 19 mm plaster (4:1) to inside face upto the depth of cement B/W 12 mm plaster (4:1) on outer face of G.L. and 6 mm plaster (4:1) on top of R.C.C slab i/c filling bottom 1.0 M of the well with brick metal (50-63 mm size) i/c with concrete (3:1:5:1) with stone chips and necessary reinforcement and shuttering & R.C.C manhole cover of approved make 560 mm dia in R.C. slab cover making necessary arrangements for pipe connection excavation of well and filling brick metal to in side i/c shoring, dewatering and removing the excess earth from the premises as per direction complete with all costs of labour and materials. | 15111 | |
| @ 15111/each [Page No. 87, Item No. 4] Sanitary | | |
| Total Rs. | | 590306 Rs. 17,709.00 |
| Add contingency 3% Total Rs. | | 608015 |
| Total Rs. | | 608013 |

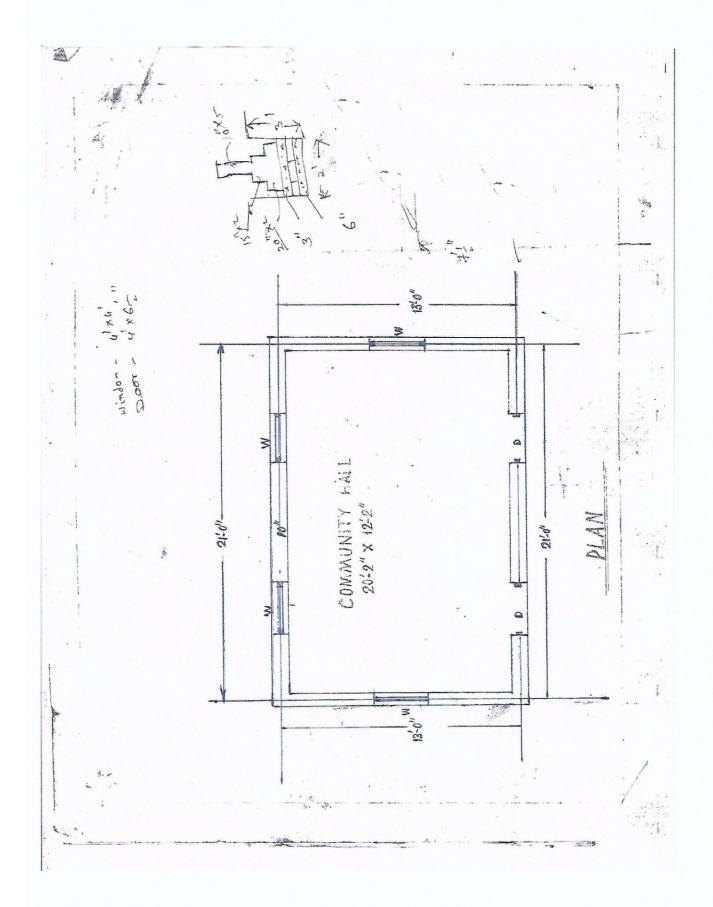
Proposed Estimate for Construction of Community hall.

| Item No. | | | | Desci | iption of | Items | | | | Unit | Rate (Rs.) | Amount (Rs.) |
|-------------|--|--------------|--------|----------------------|-------------|--|---------------|------------------------------|-----------------|-------|---------------|-----------------|
| | Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. a) Depth of excavation exceeding 1.5mtr | | | | | | | | | | | |
| | а) Беритог НД | 21.2 | X | 0.6 | х | 0.9 | = | 11.45 | М3 | 11.45 | 120.47 | 1,379.14 |
| | Single Brick dressing be Floor | | | | | g ramming and al sand. 24.4 M2 24.4 M2 | | | | 24.4 | 308 | 7.515.20 |
| | | | | | | | | | | 24.4 | 308 | 7,515.20 |
| 3 | Cement cor a)in gr.floor | | | tone blallast 0.6 | (40 mm s | ize) excluding | = | | | | | |
| | Floor | 6.16 | X | 3 | X | 0.075 0.075 | = | 0.95 1.83 U | M3 M3 M3 | 2.78 | 4 240 00 | 11745 7 |
| | | | | | | | | | IVI3 | 2.70 | 4,219.00 | 11745.7 |
| 4 | Brick work a) in founda | | | in cement m | ortar (1 :6 | 5) | | | | | | |
| | FD | 21.2 | x | 0.5 | x | 0.15 | = | 1.59 | M3 | | | |
| | | 21.2 21.2 | x x | 0.3 0.25 | x x | 0.15 0.3 | = | 0.95 1.59 | M3 M3 | | | |
| | Upto P.L | 21.2 | x | 0.5 | х | 0.3 | = = | 3.18 <u>0</u> | M3 <u>M3</u> | 0.5 | 5 222 00 | 44 207 00 |
| | | | | | | | | 7.31 | M3 | 8.5 | 5,222.00 | 44,387.00 |
| 5 | Brick work | | | in cement m | ortar (I :6 |) | | | | | | |
| | Wall | 21.2 4 | x x | 0.25 0.25 | x x | 2.4 0.9 | = | 12.72 0.9 13.62 | M3 M3 | ı | | |
| | Deduction for opening | | | | | | | | | | | |
| | Door-2 Door-4 | 1.2 1.2 | x x | 0.25 0.25 | x x | 2 1.2 | = | 1.2 0.36 | M3 M3 | | | |
| | | 1.2 | ^ | 0.23 | ^ | 1.2 | = = (-) | 0.36 | M3 M3 | 1 | | |
| | | | | | | | | 12.06 | M3 | 12.06 | 5,447.00 | 65,690.82 |

| Item | Description of Items | | Unit | Rate | Amount |
|------|---|------------------|--------|----------|----------|
| No. | · | | | (Rs.) | (Rs.) |
| 6 | Ordinary Cement concrete (mix I :2:4) with graded stone chips (6mm nominal size) | | | | |
| | excluding shuttering and reinforcement, if any, in gound floor. (d) With local hard blackstone variety chips (crusher broken) | | | | |
| | Lintel 21.2 x 0.25 x 0.15 | = 0.80 M3 | | | |
| | Chajha 1.5 x 0.50 x 0.075 | = 0.32 M3 | | | |
| | | = 0.00 M3 | | | |
| | | = <u>0.00 M3</u> | | | |
| | | 1.12 M3 | 1.12 | 5,872.00 | 6,547.28 |
| 7 | Reinforcement for reinforced concrete work in all sorts of structures | | | | |
| , | including distribution bars, stirrups, binders etc initial straightening and | | | | |
| | removal of loose rust (if necessary), cutting to requisite length, hooking andbending to | | | | |
| | correct shape, placing in proper position and binding with 16 gauge black annealed wire | | | | |
| | at every intersection, complete as per drawing and direction. | | | | |
| | Tor steel 1.11 x 1.00% x 7850 | = 8.713 kg | | | |
| | | = 0.0871 MT | 0.0871 | 61787.00 | 5381.65 |
| | | | | | |
| 8 | Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with | | | | |
| | required bracing for concrete slabs, beams and columns, lintels curved or straight | | | | |
| | including fitting, fixing and striking out after completion of works (upto roof of ground | | | | |
| | floor). | | | | |
| | (a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In- | | | | |
| | Charge. | | | | |
| | Lintel Ix 21.2 x 0.15 | = 6.36 M2 | | | |
| | Chaja-4 x 2.4 x .0.08 | = 0.72 M2 | | | |
| | | = 0.00 M2 | | | |
| | | = 0.00 M2 | | | |
| | | 7.08 M2 | 7.08 | 729 | 5161.32 |
| 9 | Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off | | | | |
| 9 | or chamfering corners as directed and raking out joints including throating, nosing and | | | | |
| | drip course, scaffolding/staging where necessary(Ground floor).[Excluding cost of | | | | |
| | chipping over concrete surface] | | | | |
| | i) With 1:6 cement mortar a.1 Omm thick plaster. | | | | |
| | Ix 22.20 x 3.20 = 71.04 | = 71.04 M2 | | | |
| | Chaja-12x 1.50 x 0.45 = 8.10 | = 8.10 M2 | | | |
| | Less- 4 x 1.20 x 1.20 = 5.76 | = 5.76 M2 | | | |
| | 2 x 1.20 x 2.00 = 4.80 | = 4.80 M2 | | | |
| | | 68.58 M2 | 68.58 | 191 | 13098.8 |
| | ii)20mm th.plaster (1 :6) cement sand mortar | | 00.00 | | 200000 |
| | Inside 20.2 x 2.80 = | = 56.56 M2 | | | |
| | Less- 6 .20 x 1.20 = | = 8.64 M2 | | | |
| | | 47.92 M2 | 47.92 | 192 | 9200.64 |
| | | | | | |
| 10 | Galvanised corrugated iron sheet work (excluding the supporting frame work) fitted and | | | | |
| | fixed with 10 mm. dia J or L hook-bolts, limpet and bitumen washers and putty complete with 150 mm. end lap and one corrugation minimum side lap. (Payment to be | | | | |
| | made on area of finished work)(GCI sheet to be supplied by contractor) | | | | |
| | | | | | |
| | Total area= 2 x 6.4 x 2.85 | = 36.20 | 36.2 | 725 | 26245 |

| Item No. | | | Desc | ription of Item | s | | | | Unit | Rate (Rs.) | Amount (Rs.) |
|-------------|---|-----------------|----------------|-------------------|---------------|------------------|-------|---------------------|-------|---------------|-----------------|
| 11 | Artificial stone in floor, dado, staircase etc with cement concrete (I :2:4) with | | | | | | | | | | |
| | stone Chips, I | aid in panels a | as directed v | ith topping ma | ide with | | | | | | |
| | a.1.75k | glsq.m.alJ com | nplete includ | ing alJ material | and labour | rs. | | | | | |
| | ii)25 mm thic | k. 3mm thick | topping with | ordinary ceme | ent | | | | | | |
| | Room | 6.1 | x | 4 | == | | = | 24.4 M2 24.40 M2 | 24.4 | 292 | 7,124.80 |
| 12 | Sand filling in | FD or plinth h | | | | | | | | | |
| | F.D. | 21.2 | х | 0.6 | х | 0.15 | = | 1.91 M3 | | | |
| | | 6.1 | x | 4.5 | x | 0.3 | = | 8.24 M3 | | | |
| | | | | | | | | 10.14 M3 | 10.14 | 390.29 | 3,958.71 |
| 13 | Wood work in | n door and wi | ndow frame | fitted and fixed | l in position | n complete | | | | | |
| | including a pr b.(Neem,Jam | | of painting a | nt the contact s | urface of th | ie frame. | | | | | |
| | w. 4 | 6 | x | 0.075 | x | 0.08 == | = | 0.14 M3 | | | |
| | D-2 | 6 | x | 0.1 | х | 0.08 == | = | 0.09 M3 | | | |
| | | | | | | | | 0.23 M3 | 0.23 | 59,914.00 | 13,780.22 |
| 14 | | | | e made of flat k | | | otion | | | | |
| | c.40 mm x 6n | nm above 125 | mm upto 1 | 70 mm length. | | ete as per dired | | | | | |
| | W | 7 | X | 4 | == | 28 | Nos | | | | |
| | D | 1 | X | 6 | == | 6 | Nos | _ | | | |
| | | | | | | 34 | Nos | | 34 | 22 | 748 |
| 15 | Panel shutter | s of door and | window, as | per design (eac | h panel cor | nsisting of | | | | | |
| | | | _ | ting and fixing t | the same in | position | | | | | |
| | _ | the cost of hi | - | _ | | | | | | | |
| | | ck shutters w | ith 12mm th | ick pannel | | | | | | | |
| | c.(other lo | | | | | | | | | | |
| | W- | 4 | Х | 0.9258 | Х | 1.075 == | | 3.98 M2 | | | |
| | D- | 2 | Х | 0.925 | Х | 1.075 == | | 1.99 M2 5.97 M2 | 5.97 | 1,799.00 | 10,740.03 |
| | | | | | | | | | | | |
| 16 | Iron butt hing | ges of approve | ed quality fit | ed and fixed w | ith steel sci | rews, with | | | | | |
| | ISI mark. | | | | | | | | | | |
| | iv) | 75mm | x | 40mm | х | 1.25mm | | | | | |
| | W | 7 | x | 4 | == | 28 | Nos | | | | |
| | D | 1 | х | 6 | == | 6 | Nos | | | | |
| | | | | | | 34 | Nos | _ | 34 | 31 | 1,054.00 |
| 17 | Iron haps bol | t of approved | quality | | | | | | | | |
| | c. 300mm lor | ıg. | | | | | | | | | |
| | Nos. | 1 | | | | | | | 1 | 240 | 240 |

| Item | | | | | | | | | | Unit | Rate | Amount |
|------|--|-----------|----------------|-------------|---------------|-----------|------------|-------|--------------|--------|-------|-----------|
| No. | Description of Items | | | | | | | | Oilit | (Rs.) | (Rs.) | |
| 18 | Iron soket bolt of app.quality fitted & fixed comp | | | | | | | | | | | |
| | i) 150 mm long x | 10 mm | dia bolt. | | | | | | | | | |
| | | W- | 7 | x | 2 | = | 14 | Nos | | 14 | 71 | 994 |
| | ii) 225 mm long x | 10 mm | n dia bolt. | | | | | | | | | |
| | | D- | I | Х | 2 | = | 2 | Nos | | 2 | 87 | 174 |
| 19 | Colour washing v | vith nig | ments of a | nv shade | with a white | wash nrir | ning Two | | | | | 1 |
| | coats of colour w | | | , saac | With a Willie | | | | | | | |
| | Quantity same as | | lo.9 i), ii) & | iii) | | | | | | | | |
| | , | | 27.82 | + | 70.57 | + | 132 | .37 = | 230.76 M2 | 230.76 | 22.4 | 5,169.02 |
| | | | | | | | | | | | | |
| 20 | (a) Priming one o | oat on t | timber or p | lastered | surface with | synthetic | oil bound | | | | | |
| | primer of approv | ed qual | ity includir | ng smooth | nening surfac | es by san | d papering | | | | | |
| | etc. | | | | | | | | | | | |
| | - | 7 | 1.2 | x | 1.2 | x | 2.6 | = | 7.48 M2 | | | |
| | | 2 | 1.2 | x | 1.2 | х | 2.6 | = | 12.48 M2 | | | |
| | 4 | 1 | 1.2 | x | 1.2 | x | 2.6 | = | 14.98 M2 | | | |
| | | | | | | | | | 34.94 M2 | 34.94 | 41 | 1,432.54 |
| 21 | Painting with best quality synthetic enamel paint of approved make and brand | | | | | | | | | | | |
| | including smooth | _ | | | • | uding usi | ng of | | | | | |
| | approved putty 6 | etc. on t | | , if necess | • | | | | | | | |
| | 4 | -X | 1.20 | х | 1.20 | x | 1.00 | = | 5.76 | | | |
| | 2 | X | 1.20 | x | 2.00 | х | 2.00 | = | 12.48 | | | |
| | 4 | -X | 1.20 | х | 1.20 | x | 2.60 | = | <u>14.98</u> | | | |
| | | | | | | | | | 33.22 | 33.22 | 89 | 2,956.58 |
| | | | | | | | | | Total amount | = | | 244724.43 |
| | | | | | | | | | Or Say | | | 244724 |



617 A Estimate for Jetty (45.00M length x 2.00 M wide and approach path 15.00 M x 2.50 M)

| SI No | Description of work | Quai | ntity | Rate (| In Rs | s.) | Amount (In Rs.) |
|-------|---|-------|-------|----------|-------|-----|--------------------|
| 1 | Earth work in excavation of foundation trenches in all sorts of soil (Depth of excavation not exceeding 1500 mm) | 64.69 | | 120.47 | / | m3 | 7793.20 |
| 2 | Earth work in filling in foundation/plinth with excavated earth | 21.56 | m3 | 78.31 | / | m3 | 1688.36 |
| 3 | Supplying U/C bullah piles at work site, including dressing and making one end pointed i) 125 mm dia | 360 | m | 145.00 | / | m | 52200.00 |
| 4 | Labour for driving U/c bullah piles by monkey in all sorts of soil including hoisting and placing piles in position and including hire and labour for necessary driving appliances and all | 360 | M | 92.00 | / | M | 33120.00 |
| 5 | Hire and labour charges for shoring work(including necessary close plank walling, framing salballah piling struttingetc.)complete as per direction of the EIC for foundation excavation in trenches rafts etc (vertical surface of contact area with supporting earth to be | 38.4 | M2 | 431.00 | / | M2 | 16550.40 |
| 6 | Baling out water from foundation area for c instruction purpose | | | LS | | | 60000.00 |
| 7 | Supply and fitting fixing of copper dam (used for RCC pillar casting in the river) (1.5m x 1.5m x 1.2 m) made of 18 g MS sheet with (25 mm x 25 mm x 5 mm) MS Angle and 25 mm x 25 mm x 5 mm) Ms angle and 25 mm MS flat for covering batterns. | 4 | nos | 15000.00 | / | nos | 60000.00 |
| 8 | Supplying and laying polythene sheet over PCC in foundation | 123.1 | m2 | 25.00 | / | m2 | 3077.50 |
| 9 | Filling in foundation by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water and ramming complete, including the cost of supply of sand. | 76.08 | m3 | 985.24 | / | m3 | 74957.06 |

| SI No | Description of work | Quai | ntity | Rate (| In Rs. |) | Amount |
|-------|--|--------|-------|------------|--------|--------|----------------------|
| 10 | Cement concrete (4:2:1) with graded stone chips (20 mm size) excluding shuttering and reinforce cement | 7.08 | m3 | 6688.86 | / | m3 | (In Rs.) 47357.13 |
| 11 | Cement concrete (M-20) (3:1 1/2:1) with graded stone chips (20 mm size) excluding shuttering and | 57.88 | m3 | 7485.81 | / | m3 | 433278.68 |
| 12 | Hire and labour carnages for shuttering with centering and necessary staging etc including striking out after completion of work a) steel shuttering or 9 to 12 mm | 339.83 | m2 | 360.00 | / | m2 | 122338.80 |
| 13 | Supplying reinforcement including cutting binding etc as per design | 81.784 | qty | 6193.60 | / | qty | 506537.38 |
| 14 | Brick work in cement morter a) (4:1) | 13.16 | m3 | 6293.00 | / | m3 | 82815.88 |
| 15 | Plaster to wall ceiling etc with sand cement mortar a) 10 mm thick plaster (4:1) | 149.54 | m2 | 140.00 | / | m2 | 20935.60 |
| 16 | Neat cement about 1.5 mm thick | 140 | m2 | 38.00 | / | m2 | 5320.00 |
| 17 | Neat cement about 1.5 mm thick 25 mm thick artificial stone flooring with cement concrete (4:2:1) laid in panel including neat cement | 139.1 | m2 | 303.00 | / | m2 | 42147.30 |
| 18 | Applying decorative cement based paint of approved quality after preparing the surface | 140 | m2 | 67.87 | / | m2 | 9501.80 |
| | - | | | | | TOTAL | 1579712.10 |
| | | | | Riverine o | harg | es30% | 473913.63 |
| | | | | Cont | inger | ncy 3% | 47391.36 |
| | | | · | | | TOTAL | 2101017.09 |

or say 2100893.00

ESTIMATED COST OF "JETTY (20.00M)" AT SUNDERBAN TIGER RESERVE

| ω | 2 | 1 | SI. |
|---|---|---|---------------------------|
| Cement concrete with graded jhama khoa (30 mm size) excluding shuttering in foundation (1:3:6) Pile Cap | Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (payment to be made on the basis of measurement of finished quantity of work) (a) With eart obtained from excavation of foundation 1/5th of earth work in excavation = | Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, leveling, dressing and ramming the bottom, bailing out water as required complete. (a) Depth of excavation not exceeding 1,500 mm. Pile Pile Cap | ltem |
| cum | %cum | %cum | Unit |
| P-11/4 | P-3/3 | P-1/2 | Page/Ite m |
| ∞ | | 16 | No |
| 2.25 | | 16.5 | Length L (m) |
| 0.9 | | 0.45 | Width/ Radius B (m) |
| 0.1 | | 1.85 Tt | Height H (m) |
| 1.62 | 39.56688 | 167.864 29.97 197.834 | Quantity |
| 5803 | 7831 | 12047 | Rate (in Rs.) |
| 9400.9 | 3098.5 | 23833.1 | Amount (in Rs.) |

| No. | ltem | Unit | Page/Ite m | N _o | Length L (m) | Width/ Radius B (m) | Height H (m) | Quantity | Rate (in Rs.) | Amount (in Rs.) |
|-----|--|------|---------------|----------------|-----------------|---------------------------|-----------------|----------|------------------|--------------------|
| 4 | Ordinary Cement Concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor | cum | P-12/6(b) | | | | | | | |
| | as per relevant IS Codes. | | | | | | | | | |
| | (i) Pakur Variety | | | | | | | | | |
| | Pile | | | 16 | 16.5 | 0.45 | | 167.8644 | | |
| | Pile Cap | | | ∞ | 2.25 | 0.9 | 0.75 | 12.15 | | |
| | Column | | | 16 | 3.6 | 0.3 | | 16.27776 | | |
| | Beam | | | ∞ | 2.5 | 0.3 | 0.35 | 2.1 | | |
| | Beam | | | 2 | 21.39 | 0.3 | 0.35 | 4.4919 | | |
| | Slab | | | 1 | 21.39 | 2.5 | 0.2 | 10.695 | | |
| | Step | | | 27 | 2.5 | 0.25 | 0.15 | 1.265625 | | |
| | | | | | | | Τt | 214.8447 | 7415.25 | 1593127.05 |
| 5 | Hire and labour charges for shuttering with | | | | | | | | | |
| | approved stout props and thick hard wood planks of | | | | | | | | | |
| | approved thickness with required bracing for concrete slabs heams and columns lintels curved | | P-26/12 | | | | | | | |
| | or straight including fitting, fixing and striking out | | | | | | | | | |
| | after completion of works (upto roof of ground | | | | | | | | | |
| | floor) | | | | | | | | | |
| | (a) 25 mm to 30 mm thick wooden shuttering as per | | | | | | | | | |
| | decision & direction of Engineer-In-Charge. | | | | | | | | | |
| | i) Beam, Column, Slab, Pile Cap | sqm. | | | | | | 180.450 | 360 | 64962.0 |
| | ii) Shoring | sqm. | | | | | | 19.600 | 360 | 7056.0 |

| Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 guage black annealed wire at every intersection, complete as per drawing and direction. (i) Tor steel/Mild Steel I. SAIL/TATA/RINL M.T. Riverine area connected by river route (22.5% of the total cost) add 3% for contingency Total cost i |
|--|
| is, binders etc initial strainstrains, binders etc initial strainal of loose rust (if necess ite length, hooking and by placing in proper positions are black annealed wire age black annealed wire atteel/Mild Steel /TATA/RINL /TATA/RINL ne area connected by rive % for contingency |
| pe, placing in proper positic trage black annealed wire a plete as per drawing and dor steel/Mild Steel IIL/TATA/RINL III/TATA/RINL I 3% for contingency |
| omplete as per drawing and d) Tor steel/Mild Steel SAIL/TATA/RINL iverine area connected by rive dd 3% for contingency |
| . SAIL/TATA/RINL Riverine area connected by rive add 3% for contingency |
| Riverine area connected by rive add 3% for contingency |
| Riverine area connected by rive add 3% for contingency |
| add 3% for contingency |
| |
| |
| Total cost of the Project = Rs. 25,47,714 |

ESTIMATED OF "TWO STORED SATELLITE CAMP" AT SUNDERBAN TIGER RESERVE

| ω | | | | | | | | | | 2 | | | | | | | | | н | No. | |
|--|--------|--------|----------|-----------------|-----------------|-----------------|----------------------|---|--|--|------------|-----------|-----------|-----------------|-----------------|-----------------|-----|---|--|-----------------------|----------------|
| Single Brick Flat Soling of Picked Jhama bricks including ramming and dressing bed to proper level and filling joints with local sand. | | | Tie beam | Foundation (F3) | Foundation (F2) | Foundation (F1) | foundation trenches. | flooring or roof terracing or in foundation or in | /sq.m) over damp proof course or below | Supplying and laying Polythene Sheet (150 gm | Total | | Tie beam | Foundation (F3) | Foundation (F2) | Foundation (F1) | mm. | (a) Depth of excavation not exceeding 1,500 | Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, leveling, dressing and ramming the bottom, bailing out water as required complete. | Description of Work | - |
| P-11/1 | Total | | | | | | | | P-45/13 | | | | | | | | | | P-1/2 | Page/Item | - 440 |
| | | 1 | 1 | 4 | 5 | ω | | | | | | 1 | 1 | 4 | 5 | ω | | | | N _o | ולינים היים |
| | | 27.925 | 12.7 | 1.5 | 1.35 | 1.2 | | | | | | 27.925 | 12.7 | 1.5 | 1.35 | 1.2 | | | | Length L (m) | 27 |
| | | 0.25 | 0.25 | 1.5 | 1.35 | 1.2 | | | | | | 0.25 | 0.25 | 1.5 | 1.35 | 1.2 | | | | Width/Radius B (m) | |
| | | | | | | | | | | | | 0.35 | 0.25 | 1.5 | 1.5 | 1.5 | | | | Height H (m) | ערואטאוא ווי |
| | 32.59 | 6.98 | 3.18 | 9.00 | 9.11 | 4.32 | | | | | 36.886 cum | 2.443 cum | 0.794 cum | 13.500 cum | 13.669 cum | 6.480 cum | | | | Quantity | OEN NESENVE |
| | sqm | sqm | sqm | sqm | sqm | sqm | | | | | m | М | В | m | m | т | | | | Unit |]" |
| | 25 | | | | | | | | | | 12047 %cum | | | | | | | | | Rate (in Rs.) | |
| | sqm | | | | | | | | | | | | | | | | | | | Unit | |
| | 814.72 | | | | | | | | | | 4443.65 | | | | | | | | | Amount (in Rs.) | |

| | | U | | | | | | | | | | | | 4 | | | | | | | | | SI. |
|------------------------------------|--|--|----------|-------|-------|--------|----------|-----------------|-----------------|-----------------|----------------------|-----------------|---|--|----------|-------|-------|--------|----------|-----------------|-----------------|-----------------|-----------------------|
| 1/5 th of earth work in excavation | (a) with earth obtained from excavation of foundation. | Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work) | Total | | Floor | | Tie beam | Foundation (F3) | Foundation (F2) | Foundation (F1) | (a) 1:3:6 proportion | and foundation. | mm size) excluding shuttering in ground floor | Cement concrete with graded jhama khoa (30 | Total | | Floor | | Tie beam | Foundation (F3) | Foundation (F2) | Foundation (F1) | Description of Work |
| | | P-3/3 | | | | | | | | | | | P-11/4 | | | | | | | | | | Page/Item |
| - | | | | 1 | 1 | 1 | 1 | 4 | 5 | 3 | | | | | | 1 | 1 | 1 | 1 | 4 | 5 | 3 | No |
| 1 | | | | 7.975 | 7.975 | 27.925 | 12.7 | 2 | 1.75 | 1.5 | | | | | | 7.975 | 7.975 | 27.925 | 12.7 | 2 | 1.75 | 1.5 | Length L (m) |
| 1 | | | | 2.375 | 4.3 | 0.25 | 0.25 | 2 | 1.75 | 1.5 | | | | | | 2.375 | 4.3 | 0.25 | 0.25 | 2 | 1.75 | 1.5 | Width/Radius B (m) |
| 1 | | | | 0.075 | 0.075 | 0.075 | 0.075 | 0.075 | 0.075 | 0.075 | | | | | | | | | | | | | Height H (m) |
| 7.377 | | | 7.609 | 1.42 | 2.57 | 0.52 | 0.24 | 1.20 | 1.15 | 0.51 | | | | | 101.452 | 18.94 | 34.29 | 6.98 | 3.18 | 16.00 | 15.31 | 6.75 | Quantity |
| cum | | | cum | sqm | sqm | sqm | sqm | sqm | sqm | sqm | | | | | sqm | sqm | sqm | sqm | sqm | sqm | sqm | sqm | Unit |
| 7831 | | | 5803 | | | | | | | | | | | | 377 | | | | | | | | Rate (in Rs.) |
| %cum | | | cum | | | | | | | | | | | | sqm | | | | | | | | Unit |
| 577.7 | | | 44154.39 | | | | | | | | | | | | 38247.36 | | | | | | | | Amount (in Rs.) |

| 7 | | | | | | | | | Ī | 6 | No. |
|--|------|-----------------|-----------------|-----------------|------------------------------|-------------------|----------------|--------------------------|----|--|-----------------------|
| Hire and labour charges for shuttering with cenetering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor) | | Foundation (F3) | Foundation (F2) | Foundation (F1) | a) foundation & ground floor | (i) Pakur Variety | (a) M 25 Grade | [using concrete mixture] | 0. | Controlled Cement concrete with well graded stone chips (20 mm graded nominal size) excluding shuttering and reinforcement with complete design of concrete as per IS: 456 and relevant special publications, submission of job mix formula after preliminary mix design after testing of concrete cubes as per direction of Engineer-in charge. Consumption of cement will not be less than 300 kg of cement with Super plasticiser per cubic metre of controlled concrete but actual consumption will be determined on the basis of preliminary test and ich mix formula. In ground and foundation | Description of Work |
| P-26/12 | | | | | | | | | | P-12/6 (b) | Page/Item |
| | | 4 | 5 | 3 | | | | | | | No |
| | | 1.50 | 1.35 | 1.20 | | | | | | | Length L (m) |
| | | 1.50 | 1.35 | 1.20 | | | | | | | Width/Radius B (m) |
| | | 0.2 | 0.2 | 0.2 | | | | | | | Height H (m) |
| | 4.49 | 1.80 | 1.82 | 0.86 | | | | | | | Quantity |
| | cum | cum | cum | cum | | | | | | | Unit |
| | | | | | | | | | | | Rate (in Rs.) |
| | | | | | | | | | | | Unit |
| | | | | | | | | | | | Amount (in Rs.) |

| | | | | | | | | | | | 9 | | | | | | | | | | | | | | ∞ | | | | | | | SI. |
|---------|-------------|-------------|-------------|-----------|-----------|-----------------------|----------------|---------|----------|---|--------------|--|--------------------|-------------|--------------|----------------|---|--|---|---|---|---|--|---|---|--------------------|-------------|---------------------------|--------|--|--|-----------------------|
| | Window (W3) | Window (W2) | Window (W1) | Door (D2) | Door (D1) | Deduction for opening | In first floor | | Door (D) | (b) In superstructure, ground floor deduction for opening | mortar (1:6) | Brick work with 1st class bricks in coment | Mumty Room (2nd H) | First floor | Ground floor | and direction. | every intersection, complete as per drawing | binding with 16 guage black annealed wire at | correct shape, placing in proper position and | to requisite length, hooking and bending to | and removal of loose rust (if necessary), cutting | bars, stirrups, binders etc initial straightening | all sorts of structures including distribution | Reinforcement for reinforced concrete work in | | Mumty Room (2nd H) | First Floor | Foundation & Ground floor | charge | as per decision & direction of Engineer-in | (a) 25 mm to 30 mm thick wooden shuttering | Description of Work |
| | | | | | | | | | | | P-29/22 | | | | | | | | | L 7/12 | P_27/15 | | | | | | | | | | | Page/Item |
| | 1 | 1 | 5 | 1 | 1 | | 1 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | No |
| | 0.6 | 1.2 | 1.5 | 0.8 | 0.9 | | 28.85 | | 1 | 12.1 | | | | | | | | | | | | | | | | | | | | | | Length L (m) |
| | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | | 0.25 | | 0.25 | 0.25 | | | | | | | | | | | | | | | | | | | | | | Width/Radius B (m) |
| Total | 0.6 | 1.2 | 1.35 | 2.1 | 2.1 | | 2.25 | Total | 2.1 | 2.25 | | | | | | | | | | | | | | | | | | | | | | Height H (m) |
| 12.354 | 0.09 | 0.36 | 2.531 | 0.42 | 0.473 | | 16.228 | 6.281 | 0.525 | 6.806 | | | 0.202 | 1.088 | 2.057 | | | | | | | | | | | 28.415 | 124.847 | 175.086 | | | | Quantity |
| cum | cum | cum | cum | cum | cum | | cum | mno | cum | cum | | | M.T | M.T | M.T | | | | | | | | | | | sqm | sqm | sqm | | | | Unit |
| 6055 | | | | | | | | 5943 | | _ | | | 69468 | 68988 | 68508 | | | | | | | | | | | 396 | 378 | 360 | | | | Rate (in Rs.) |
| cum | | | | | | | | cum | | | | | M.T | M.T | M.T | | | | | | | | | | | sqm | sqm | sqm | | | | Unit |
| 74805.7 | | | | | | | | 37329.5 | | | | | 13858.0 | 74588.9 | 140921.0 | | | | | | | | | | | 10863.1 | 46337.0 | 63031.0 | | | | Amount (in Rs.) |

| | | | | | | | | | Н | | | | | 1 | | | | | | | | Ъ | | | | | | Zσ |
|-------------|-------------|-------------|-----------|-----------|----------------|----------|--------------|---------------|---|---------------------------------------|--|--|---|---|---|----------------------|---------|-----------|-----------|-----------------------|----------------|---|---------|-------------|-----------|-----------------------|--------------------|-----------------------|
| _ | - | - | L | L | L | | L. | | 12 q | | s T | വ | _ | t 11 | | F | | | L | С | L | 1 10 c | _ | - | L | C | п | SI. No. |
| Window (W3) | Window (W2) | Window (W1) | Door (D2) | Door (D1) | In first floor | Door (D) | in gr. Floor | (d) Sal:Local | quantum should be corrected upto three decimals) | Iron Butt Hinges and M.S clamps. (The | protective coat of painting at the contact surface of the frame excluding cost of concrete. | and fixed in position complete including a | Wood work in door and window frame fitted | third layer in 29 & 30 above in any floor | Extra for using approved H.B netting in every | Parapet wall (2nd H) | | Door (D2) | Door (D1) | Deduction for opening | In first floor | 125 mm. thick brick work 1st class bricks in cement mortar (1:4) in ground floor. | | Window (W1) | Door (D1) | deduction for opening | mumty room (2nd H) | Description of Work |
| | | | | | | | | | | P-85/1 | | | | P-31/31 | | | | | | | | P-31/29 | | | | | | Page/Item |
| 2 | 2 | 5 | 2 | 3 | | 2 | | | | | | | | | | 1 | | 2 | 2 | | 1 | | | 1 | 1 | | 1 | No |
| 2.4 | 4.8 | 5.7 | 5 | 5.1 | | 5.2 | | | | | | | | | | 25.3 | | 0.8 | 0.9 | | 15.25 | | | 1.5 | 0.9 | | 12.1 | Length L (m) |
| 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | 0.1 | | | | | | | | | | | | | | | | | | 0.25 | 0.25 | | 0.25 | Width/Radius B (m) |
| 0.075 | 0.075 | 0.075 | 0.075 | 0.075 | | 0.075 | | | | | | | | | | 0.9 | | 2.1 | 2.1 | | 2.65 | | Total | 1.35 | 2.1 | | 2.15 | Height H (m) |
| 0.036 | 0.072 | 0.214 | 0.075 | 0.1148 | | 0.078 | | | | | | | | 56.043 | | 22.77 | 33.273 | 3.36 | 3.78 | | 40.413 | | 5.525 | 0.506 | 0.473 | | 6.504 | Quantity |
| cum | cum | cum | cum | cum | | cum | | | | | | | | sqm | | sqm | sqm | sqm | sqm | | sqm | | cum | cum | cum | | cum | Unit |
| | | | | | | 89279 | | | | | | | | 46 | | 807 | 795 | | | | | | 6167 | | | | | Rate (in Rs.) |
| | | | | | | cum | | | | | | | | sqm | | sqm | sqm | | | | | | cum | | | | | Unit |
| | | | | | | 6963.76 | | | | | | | | 2578 | | 18375.4 | 25253.8 | | | | | | 34072.7 | | | | | Amount (in Rs.) |

| | | | | Γ | | | | | | | | | | | | | | | | 13 | | | | | | | | | | No. |
|---------|-------------|-----------|--------------------|---------|-------------|-------------|-------------|-----------|-----------|----------------|----------|------------------|----------------|---|----------------------------|--|--|---|------------------|---------------------|---|--|---|---|-------|-------------|-----------|--------------------|----------|-----------------------|
| | Windo | Door (D1) | mumt) | | Windo | Windo | Windo | Door (D2) | Door (D1) | In first floor | Door (D) | in grou | Mogra | (b) Sish | panel (| (iv) 25ı | ומובטו | (In cas | in grou | | same i | withou | design | Panel s | | Windo | Door (D1) | mumty | | o :- |
| | Window (W1) | D1) | mumty room (2nd H) | | Window (W3) | Window (W2) | Window (W1) | D2) | D1) | floor | ס) | in ground floor. | Mogra, Hallak. | (b) Sishu, Gamar, Champa, Badam, Bhola, | panel of size 30 to 45 cm. | (iv) 25mm thick shutters with 12mm thick | late of Leddchoff of 20% will be filade) | (In case of non-supply of single plank, penal | in ground floor. | and other fittings. | same in position but excluding the cost of hige | without joint), including fitting and fixing the | design (each panel consisting of single plank | Panel shutters of door and window, as per | | Window (W1) | D1) | mumty room (2nd H) | | Description of Work |
| | | | | | | | | | | | | | | | | | | | | | | P-105/84 | | | | | | | | Page/Item |
| | 1 | 1 | | | 2 | 2 | 5 | 2 | 3 | | 1 | | | | | | | | | | | | | | | 1 | 1 | | | No |
| | 1.38 | 2.04 | | | 0.48 | 1.08 | 1.38 | 2.04 | 2.04 | | 2.04 | | | | | | | | | | | | | | | 5.7 | 5.1 | | | (m) |
| | 1.23 | 0.78 | | | 0.48 | 1.08 | 1.23 | 0.68 | 0.78 | | 0.88 | | | | | | | | | | | | | | | 0.1 | 0.1 | | | Width/Radius B (m) |
| Total | 0.075 | 0.075 | | Total | | | | | | | | | | | | | | | | | | | | | Total | 0.075 | 0.075 | | Total | Height H (m) |
| 3.289 | 1.6974 | 1.5912 | | 18.829 | 0.4608 | 2.3328 | 8.487 | 2.7744 | 4.7736 | | 1.7952 | | | | | | | | | | | | | | 0.081 | 0.043 | 8880.0 | | 0.512 | Quantity |
| sqm | sqm | sqm | | sqm | sqm | sqm | sqm | sqm | sqm | | sqm | | | | | | | | | | | | | | cum | cum | cum | | cum | Unit |
| 2585 | | | | 2556 | | | | | | | 2527 | | | | | | | | | | | | | | 89679 | | | | 89479 | Rate (in Rs.) |
| cum | | | | sqm | | | | | | | sqm | | | | | | | | | | | | | | cum | | | | cum | Unit |
| 8501.03 | | | | 48125.9 | | | | | | | 4536.47 | | | | | | | | | | | | | | 7264 | | | | 45768.51 | Amount (in Rs.) |

| | | 14 | | | | | | | | | | | | | | | | | No | SI. |
|-----------|----------------|---------|---|--|--|--|---|--|---|--|--|--|---|--|---|---|---|---|---------------------|-----------------------|
| Door (D2) | In first floor | charge. | specification and direction of Engineer-in- | member etc. complete as per manufacturer's | member and minimum 2 nos. for horizontal | of screws to be provided for each vertical | by using P.V.C fasteners. A minimum of 4 nos. | 65/100 mm long MS screws through the frame | door frame shall be fixed with the wall using | seal to be provided through out the frame. The | 19mm MS square tube of 19 guage, weather | door profiles are to be reinforced with 19mm x | x 15mm M.S. square tube. The two vertical | with two nos. of 1.5mm long brackets of 15mm | PVC sheet metre cut at two corners and joined | thickness of 5 mm, made out of extruded 5mm | Door frame of size 50 mm x 47mm with a wall | Supplying, fitting & Fixing factory made P.V.C. | Description of Work | |
| | | | | | | | | | | - 100/110 | P-136/149 | | | | | | | | Page/Item | /It |
| 1 | | | | | | | | | | | | | | | | | | | NO | ? |
| 4.95 | | | | | | | | | | | | | | | | | | | (m) | Length L |
| | | | | | | | | | | | | | | | | | | | B (m) | Length L Width/Radius |
| | | | | | | | | | | | | | | | | | | | (m) | Height H |
| 4.95 | | | | | | | | | | | | | | | | | | | Quantity | |
| rm | | | | | | | | | | | | | | | | | | | Unit | - - |
| 352 | | | | | | | | | | | | | | | | | | | Unit Kate (in Ks.) | ו אם הייי |
| rm | | | | | | | | | | | | | | | | | | | Onit | - |
| 1742.4 | | | | | | | | | | | | | | | | | | | Rs.) | Amount (in |

| | 15 | SI. |
|-----------------------------|--|------------------------|
| In first floor Door (D2) | supplying, fitting & fixing 30mm thick factory made solid panel PVC door shutter consisting of outer frame made out of M.S. frame shall have cost of steel primers of approved make and manufacture, M.S. frame covered with 5 mm th. Heat moulded PVC "C" channel of size 30 mm th, 70 mm width out of which 50 mm shall be flat nd 20 mm shall be tapered in 45 degree angel on either sides forming styles; and 5 mm th. 95 mm wide PVC sheet out of which 75 mm shall be flat and 20mm tapered in 45 degree on the inner side to form top & bottom rail and 115 mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel with 10mm(5mm x 2) th., 20mm wide cross PVC sheet as gap insert for top rail and bottom rail. Paneling of 5mm th. both side PVC sheet to be fitted in the M.S. frame welded/sealed to the styles & rails with 7mm (5 mm + 2 mm)th. x 15 mm wide PVC sheet beading on inner side and joined together with solvent cement | l. Description of Work |
| | P-133/145 | Page/Item |
| ь | | No |
| 0.75 | | Length L (m) |
| 2.1 | | Width/Radius B (m) |
| | | Height H (m) |
| 1.575 | | Quantity |
| sqm | | Unit |
| 2277 | | Rate (in Rs.) |
| sqm | | Unit |
| 3586.3 | | Amount (in Rs.) |

| 21 | | 20 | | 19 | | 18 | | 17 | | 16 | SI. |
|---|--------------|--|----------------|--|--------------------------------|---|----------------------------------|---|------------------------------|--|-----------------------|
| (a) M.S. or W.I. Ornamental grill of approved design joints continuously welded with M.S. W.I. flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor. | (i) 50mm dia | (A) Iron door ring of approved quality fitted and fixed with nut and washer complete | (c) 300mm long | i) Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16mm dia rod with centre bolt round fitting. | (d) 225mm long x 10mm dia bolt | Iron socket bolt of approved quality fitted and fixed complete. | (vii) 100mm. X 58 mm. X 1.90 mm. | Iron butt hinges of hinges of approved quality fitted and fixed with steel screws, with ISI mark. | (a) 40mm x 6mm, 250mm length | Supplying, fitting and fixing M.S. clamps for door and window frame made of flat bent bar, end bifurcated with necessary screws etc. by cement concrete (1:2:4) as per direction. (cost of concrete will be paid separately) | Description of Work |
| P-76/10 | | P-98/59 | | P-93/27 | | P-93/25 | | P-91/20 | | P-90/18 | Page/Item |
| | 16 | | 16 | | 16 | | 96 | | 96 | | No |
| | | | | | | | | | | | Length L (m) |
| | | | | | | | | | | | Width/Radius B (m) |
| | | | | | | | | | | | Height H (m) |
| | 16 | | 16 | | 16 | | 96 | | 96 | | Quantity |
| | son | | nos | | nos | | nos | | nos | | Unit |
| | 19 | | 193 | | 87 | | 52 | | 33 | | Rate (in Rs.) |
| | on | | no | | no | | no | | no | | Unit |
| | 304 | | 3088 | | 1392 | | 4992 | | 3168 | | Amount (in Rs.) |

| | 23 | | | 22 | | | | | | | | | No. |
|------------------------------|--|-------------------|-----------------|---|-------------|--------------------|----------|-------------|-------------|-------------|-----------------|---|-----------------------|
| | Labour for chipping of concrete surface before taking up Plastering work | III BIOGINA IIOOI | In ground floor | Collapsible gate with 40mm x 40mm x 6mm Tee as top and bottom guide rail, 20mm x 10mm x 2mm vertical channels 100mm apart in fully streched position 20mm x 5mm M.S flats as collapsible bracings properly rivetted and washered including 38mm steel rollers including locking arrangements, fitted and fixed in position with lugs set in cement concrete and including cutting necessary holes, chasing etc. in walls, floors etc. and making good damages complete. | Window (W1) | mumty room (1st H) | | Window (W3) | Window (W2) | Window (W1) | in ground floor | (i) Grill weighing above 10 kg./sq.mtr and up to 16 kg/sq.mtr | Description of Work |
| 80% of total shuttering area | P-151/1 | | | P-77/15 | | | | | | | | | Page/Item |
| al shutte | | H | ١ | | 1 | | | 2 | 2 | 5 | | | ON |
| ering area | | ++ | 1.2 | | 1.5 | | | 0.6 | 1.2 | 1.5 | | | Length L (m) |
| | | £:+ | 2.1 | | 1.35 | | | 0.6 | 1.2 | 1.35 | | | Width/Radius B (m) |
| | | | | | 14 KG | | | 14 KG | 14 KG | 14 KG | | | Height H (m) |
| 163.932 | | 1:01 | 2.52 | | 0.284 | | 1.92 | 0.101 | 0.403 | 1.418 | | | Quantity |
| sqm | | - | mps | | Qtl | | <u>Q</u> | Qtl | Qtl | Qtl | | | Unit |
| 21 | | 1010 | 4016 | | 9141.51 | | 9051 | | | | | | Rate (in Rs.) |
| sqm | | | sam | | Qtl | | Qtl | | | | | | Unit |
| 3442.6 | | 10110:0 | 10120.3 | | 2566 | | 17391.5 | | | | | | Amount (in Rs.) |

| | | | | | | | | | | | | | | | 24 | | | | | | | | | SI. |
|-----------------------|----------------|-----------------|-------------------------|----------------------------|-----------------------|----------------|-----------------|-------------------------|----------------------------|--------------------------------------|----------------|-----------------|-------------------------|----------------------------|----|-------------------|---|---|--|--|---|---|--|-----------------------|
| in mumty room (2nd H) | in first floor | In ground floor | (a) 10 mm thick plaster | (i) With 1:4 cement mortar | in mumty room (2nd H) | in first floor | In ground floor | (a) 20 mm thick plaster | (i) With 1:6 cement mortar | in mumty room & parapet wall (2nd H) | in first floor | In ground floor | (a) 20 mm thick plaster | (i) With 1:6 cement mortar | | concrete surfacej | (Ground floor), [excluding cost of chilphing over | (Oround floor) [Fireling post of chinging prost | course scaffolding/staging where necessary | ioints including throating posing and drip | chamfering corners as directed and raking out | and cement mortar including rounding off or | Plaster (to wall, floor, celling etc.) with sand | Description of Work |
| | | | | | | | | | | | | | | | | | | | | | | | | Page/Item |
| | | | | | | | | | | | | | | | | | | | | | | | | No |
| | | | | | | | | | | | | | | | | | | | | | | | | Length L (m) |
| | | | | | | | | | | | | | | | | | | | | | | | | Width/Radius B (m) |
| | | | | | | | | | | | | | | | | | | | | | | | | Height H (m) |
| 7.74 | 63.802 | 63.802 | | | 28.4 | 122.8194 | 28.4 | | | 94.25125 | 183.774 | 129.75125 | | | | | | | | | | | | Quantity |
| sqm | sqm | sqm | | | sqm | sqm | sqm | | | sqm | sqm | sqm | | | | | | | | | | | | Unit |
| 148 | 144 | 140 | | | 164 | 160 | 156 | | | 189 | 185 | 181 | | | | | | | | | | | | Rate (in Rs.) |
| sqm | sqm | sqm | | | sqm | sqm | sqm | | | sqm | sqm | sqm | | | | | | | | | | | | Unit |
| 1145.52 | 9187.49 | 8932.28 | | | 4657.6 | 19651.1 | 4430.4 | | | 17813.49 | 33998.19 | 23484.98 | | | | | | | | | | | | Amount (in Rs.) |

| | | 27 | | | | 26 | | | | SI. No. 25 |
|--------------|------------|--|--------------------|-------------|--------------|--|---|-----------------------|----------------------|--|
| (a) One coat | all floors | White washing including cleaning and smoothening surface thoroughly. | mumty room (2nd H) | first floor | Ground floor | smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works usingcement @ 1.75 kg/sq.m all complete including all materials and labour. | Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including | first floor (kitchen) | first floor (toilet) | Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc. |
| | | P-155/3 | | | | P-40/3/(ii) | | | | Page/Item P-52/30 (B.a.ii) |
| | | | | | | | | 1 | 1 | S O |
| | | | | | | | | 4.675 | 7.2 | (m) |
| | | | | | | | | | | B (m) |
| | | | | | | | | 1.2 | 1.8 | Height H (m) |
| 314.963 | | | 11.407 | 67.4795 | 63.054 | | | 5.61 | 12.96 | Quantity |
| sqm | | | sqm | sqm | sqm | | | sqm | sqm | Unit |
| 1358%sqm | | | 312.09 | 307.55 | 303 | | | 806 | 806 | Rate (in Rs.) |
| | | | sqm | sqm | sqm | | | sqm | sqm | Unit |
| 4277.2 | | | 3560 | 20753.3 | 19105.4 | | | 4521.66 | 10445.76 | Amount (in Rs.) |

| No. | Description of Work Colour washing with any shade with Stainers, | Page/Item | No | Length L (m) | Width/Radius B (m) | Height H (m) | | Quantity | Quantity Unit | | Unit |
|-----|---|-----------------|----------|-----------------|-----------------------|-----------------|----------------|------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 28 | Colour washing with any shade with Stainers, as required including cleaning and smoothening surface thoroughly: | P-155/3 | | | | | | | | | |
| | (i) Internal surface (All floors) | | | | | | | | | | |
| | (b) Two coats (on new works only) | | | | | | | | | | |
| | (ii) Yellow, pink. | | | | | | | 92.202 | 92.202 sqm | | sqm |
| | first floor | | | | | | | 186.621 | · | | sqm 2175 |
| | mumty room | | | | | | | 36.14 | 36.14 sqm | | sqm |
| | Cement washing including cleaning and smoothening surface thoroughly (cement to be | | | | | | | | | | |
| | used @15 kg./100 sq.m of surface for one coat and @ 25kg/100 sq.m of surface for two coats) | P-156/6 | | | | | | | | | |
| | (b) Two coats (on new works only). | | | | | | | | | | |
| | In ground floor | | | | | | | 129.75125 | 129.75125 sqm | _ | sqm |
| | in first floor | | | | | | | 183.774 | 183.774 sqm | | sqm |
| | in mumty room & parapet wall (2nd H) | | | | | | | 94.25125 | 94.25125 sqm | | sqm 1631 |
| 32 | With super gloss (hi-gloss)- | | | | | | | | | | |
| | (iv) Two coats (with any shade except white) | | | | | | | 15.75 | 15.75 sqm | | sqm |
| | | | | | | | | | | Total Amo | Total Amount |
| | | | • | | | | | | | | |
| | add 3% for contingency | ו נוופ נטנמו כט | St) | | | | | | | | |
| | | | | | | To | Total cost inc | Total cost including all cha | Total cost including all charges | Total cost including all charges | Total cost including all charges |
| | Total cost of the Project = Rs. 16,42,900 (Rupees Sixteen lakhs fourty two thousand nine hund | s Sixteen lakl | hs fourt | y two thou | sand nine | hund | hundred only) | hundred only) | hundred only) | hundred only) | hundred only) |

| it (e | t-02 or dra | in in all sor | Estimate for c | | | P C QUARTER | | | |
|-------------------|---------------------------|---------------|--|------------------------|---------------|-----------------------|---------------|-------------|---------|
| it (e | t-02 or dra a) Depth o | in in all sor | | onstraction of | | | | | |
| it (e | t-02 or dra a) Depth o | in in all sor | | onstruction of | | | | | |
| it (e | t-02 or dra a) Depth o | in in all sor | | | Group- "C" | Quarter at Alip | urduar | | |
| 2 P | a) Depth o | | | | | | | | |
| 2 P | | | rts of solis(including mixed | | | | | | |
| 2 P | Foundation | | on not exceeding /500mn | 1 | | | | | |
| It | | 1 | | | | | | | |
| It | | | 1x11.24x0.06x0.75 | 5.058 | | m3 | | | |
| It | | | 2x6.32x0.60x0.75 | 5.688 | | m3 | | | |
| It | | | 2x6.47x0.60x0.75 1x2.00x0.60x0.75 | 5.823 | | m3 | | | |
| It | | | 1x2.00x0.60x0.75 | 1.215 | | m3 m3 | | | |
| It | | | 1x3.95x0.60x0.75 | 1.777 | | m3 | | | |
| It | | | 1.3.53.0.00.0.73 | 20,461 | | m3 | 73.77 | | 1509.4 |
| It | P-03 Farth | in fitting in | foundation trenches or pl | | | 1115 | 73.77 | | 250514 |
| | | | in layer not exceeding 15 | | | | | | |
| a | | coı | | | | | | | |
| (8 | a) with ex | cavation ea | rth | | | | | | |
| | | | x20.461 m3 | 4.092 | | m3 | 47.6 | | 19 |
| | | | | | | | | | |
| | | s earth (wi | th radius of 3 km) | | | | | | |
| R | Room | | 2x3.03x3.03x0.45= | 8.262 | | | | | |
| \longrightarrow | | | 1x3.64x3.03x0.45 | 4.963 | | | | | |
| \longrightarrow | | | 1x3.64x2.70x0.45 | 4.422 | | | | | |
| \longrightarrow | | | 1x2.7x2.00x0.45= | 2.43 | | | | | |
| \longrightarrow | | | 1x1.2x1.8x0.45= | 0.972 | | | | | |
| \rightarrow | | | 1x3.95x1.20x0.30= | 1.422 22.471 | | m2 | 275.40 | | 2151 |
| \longrightarrow | | | | 22.471 | | m3 | 275.46 | - | 6190 |
| 2 0 | P-?? Bed ro | om | | | | <u> </u> | | | |
| | t-01 | NOTE: | 2x3.03x3.03= | 11.029 | | | | | |
| | Dining | | 1x3.64x2.70= | 2.828 | | | | | |
| | citchen | | 1x2.7x2= | 5.4 | | | | | |
| | oilet | | 1x1.2x1.8= | 2.16 | | | | | |
| | /er | | 1x3.95x1.20= | 4.74 | | | | | |
| C | col | | 12x0.60x0.60= | 4.32 | | | | | |
| st | step | | 1x1.2x1.60= | 1.92 | | | | | , |
| | | | | 57.758 | | m3 | 237.87 | | 13739 |
| 4 P | P-33 (a) Ce | ment conci | rete with 30mm down | | | | | | |
| | | | sing shuttering | etc | | | | | |
| | Foundation | QTY | 57.758m2x0.075= | 4.331 | | m3 | | | |
| В | Bed Room | | 2x3.03x3.03x0.075= | 1.377 | | | | | |
| \longrightarrow | | | 1x3.64x3.03x0.075= | 0.827 | | | | | |
| - | | | 1x3.64x2.7x0.075= | 0.737 | | | | | |
| | | | 1x2.7x2.00x0.075= 1x1.2x3.95x0.075= | 0.405 0.355 | | | | | |
| $\overline{}$ | | | 1X1.2X3.95XU.U75= | 8.032 | | m3 | 3840.62 | | 30848 |
| 5 0 | 15_D_22 on | dinany cam | I ent concrete M-15(Mix 1: | | | IIIS | 3640.62 | | 50046 |
| | | | ne chips (20mm size) exclu | | & reinforc | l ement with river | hazaree (N. R | Varity) | |
| | c do with g | ruucu stor | le drips (2011111 size) exerc | ung snattering | - CIIIIOIE | l widinive | Duzuree (14.5 | vancy | |
| ??? Footing I | base | | | | | | | | |
| | - | | 12x0.60x0.60x0.15= | | 0.648 | m3 | | | |
| $\overline{}$ | | | 12x0.45x0.45x0.25= | | 0.670 | | | İ | - |
| | | | 12x0.25x0.25x0.25= | | 0.15 | | | | |
| | | | 12x0.25x0.25x3.00= | | 2.25 | | | | |
| | | | | | | | | | |
| В | Beam | | 1x11.00x0.25x0.25= | | 0.6870 | | | | |
| | | | 2x7.6x0.25x0.25= | | 0.95 | | | | |
| \longrightarrow | | | 2x6.4x0.25x0.25= | | | m3 | | | |
| | | | 2x3.00x0.25x0.25= | | 0.375 | | | | |
| | | | 2x3.64x0.25x0.25= | | 0.455 | | | | |
| | 222 | | 1x2.00x0.25x0.25= | | 0.125 | | | | |
| - 13 | ??? | | 10x1.00x1.60x0.075= | | | m3 | | | |
| | | | 1x11.00x0.15x0.125= | | 0.206 | | | | |
| \rightarrow | | | 2x7.60x0.15x0.125= 2x6.40x0.15x0.125= | | 0.285 0.24 | | | | |
| -+ | | | 2x3.00x0.15x0.125= | | 0.112 | | | | |
| | | | 2x3.64x0.15x0.125= | | 0.112 | | | | |
| -+ | | | 1x2.00x0.15x0.125= | | 0.130 | | | | |
| | | | | | | m3 @ | 3783.62 | | 3504 |
| | | | | | 5.233 | | | | 5554 |
| 6 P | P-65 Reinfo | rcement fo | or R.C.C. work in all sorts o | f It-15 structur | es includin | distribution | etc | | |
| | | | 5% of vol of R.C.C | | | l | | | |
| | | | .263 m3@7.85 M.T | | 0.908 | MT@ | 65000 | | 59020.0 |
| $\overline{}$ | | | | | | | | | |
| | | | | | | | | | |
| | C2 /E\ III. | e and labo | ur Charges for shuttering | with | | | | | |

| | | o 30mm thi | ick shuttering | | | | | | |
|----|--|--|---------------------------------------|---------|----------------|------|--|---|-------|
| | Footing | | 12x4x0.60x0.60x0.15= | | 4.32 | | | | |
| | | | 12x4x0.45x0.45x0.25= | | 5.4 | | | | |
| | - | | 12x4x0.25x0.25x0.20= | | 2.4 | | | | |
| | | | 42-4-0.25-2.00 | | 20 | | | | |
| | col le beam | | 12x4x0.25x3.00= 1x2x11.00x0.25= | | 36 5.5 | | _ | | |
| | le bealti | | 2x6.32x0.25= | | 3.16 | | | | |
| | | | 2x6.47x0.25= | | 3.24 | | | | |
| | | | 2x3.00x0.25= | | 1.5 | | | | |
| | | | 2x3.00x0.25= | | 1.5 | | | | |
| | | | 1x1.80x0.25= | | 0.45 | | | | |
| | | | | | 63.47 | m3 | 2308.95 | | |
| | | | | | | | | | |
| | ??? | | 1x2x11.00x0.15= | | | m3 | | | |
| | | | 2x2x6.20x0/15= | | 3.72 | | | | |
| | | | 2x2x6.25x0.15= | | 3.75 | | | | |
| | | | 2x2x3.00x0.15= | | 1.8 | | | | |
| | - | | 2x2x3x0.15= | | 1.8 | | | | |
| | | | 1x2x2.73x0.15= 1x2x1.80x0.15= | | 0.819 0.54 | | | | |
| | ??? | | 11x1.20x1.60= | | 21.12 | | | | |
| | 1 | | 11/1.20/1.00- | | 100.319 | - | 163.52 | | 16404 |
| | | | | | 200,020 | | 103.32 | | 20101 |
| 8 | P-69 Brick | work with 1 | ı Lst ck= lass bricks in cemei | nt | | | | | |
| | It-22 mort | | | | | | | | |
| | | ion & plinth | | | | | | | |
| | ??? | | 1x11.00x0.40x0.15= | | 0.66 | | | | |
| | | | 2x6.10x0.40x0.15= | | 0.732 | | | | |
| | | | 2x6.00x0.40x0.15= | | 0.72 | | | | |
| | | | 2x3.00x0.40x0.15= | | 0.36 | | | | |
| | | | 2x3.00x0.40x0.15= | | 0.36 | | | | |
| | 777 | | 1x1.20x1.80x0.15= | | 0.324 | | | | |
| | | | 1x0.90x1.80x0.15= | | 0.243 | | | | |
| | _ | | 1x0.6x1.80x0.15= 1x0.30x1.80x0.15= | | 0.162 0.081 | | _ | | |
| | vall | | 1x11.00x0.25x0.60= | | 1.65 | | | | |
| | vali | | 2x6.10x0.25x0.60= | | 1.83 | | | | |
| | | | 2x6.00x0.25x0.60= | | | m3 | | | |
| | | | 2x3.00x0.25x0.60= | | | m3 | | | |
| | | | 2x3.00x0.25x0.60= | | | m3 | | | |
| | | | 1x1.80x0.25x0.60= | | 0.27 | m3 | | | |
| | | | 1x2.70x0.25x0.60= | | 0.405 | m3 | | | |
| | | | 1x3.95x0.25x0.45= | | 0.444 | m3 | | | |
| | | | | | 11.841 | | | | |
| | Less Col 12 | 2x0.25x0.25 | x0.75= | | -0.562 | | | | |
| | | | | | 11.279 | m3 | 3763.4 | | 42447 |
| | D 70 407 | 45.1-1-1-1-1 | | | | | | | |
| 9 | | | ck work with 1st class brid | KS | | | - | | |
| | it-29 in cer | ment morta I | r (1:4) | | | | | | |
| | Vall | | 1x111x2.85= | | 31.35 | | | | |
| | 174 | | 2x6.10x2.85= | | 34.77 | | | | |
| | <u> </u> | | 2x6.00x2.85= | | 34.2 | | | | |
| | | | 2x3.00x2.85= | | 17.1 | | | | |
| | | | 2x3.00x2.85= | | 17.1 | | | | |
| | | | 1x1.80x2.85= | | 5.13 | | | | |
| | | | 1x2.7x2.85= | | 7.695 | | | | |
| | | | L | | 147.345 | m2 | | | |
| | Less openi | | .10x1.00= 12.60 m2 | | | | | | |
| | | (-) W-11x1 | .20x0.90= 11.88 m2 | | () 24.42 | | | | |
| | + | - | | | 122 865 | m2 | 520.70 | | 62007 |
| | | | | | 122.865 | IIIZ | 520.79 | | 63987 |
| 10 | P-179 WA | od work in | ldoor and © window | | | | | | |
| | | | d complete | | | | | | |
| | ?? | Door | 6x5.20x0.10x0.075= | 0.234 | | m3 | | | |
| | Ī | W | 11x4.20x0.10x0.075 | 0.346 | | m3 | | | |
| | | ٧ | 6x3.40x0.10x0.075= | 0.153 | | m3 | | | |
| | | | | 0.733 | | m3 | 87019 | | 63785 |
| 11 | | /I.S Clamps | for fixing door, windowfra | me | | | | | |
| | it-18 | | | | | | | | |
| | Qnty= | | | 100 | | No. | 34.3 | | 3430 |
| 43 | D 240 -L | tared /t- | lling wall flags stal white | | | | | | |
| 12 | | tered (to ce & cement r | elling, wall floor etc) with | | | | | | |
| | | | Omm thick plaster | | | | | 1 | |
| | ??? Side w | | Pastor | 129.016 | | m2 | | | |
| | ??? Inth ar | | 61.18x0.75= | 45.885 | | m2 | | | |
| | | | | | | | | | |

| 112 | | | | | | | | | |
|-----|------------------|---------------------|---|---------------------------|--|-----------|----------|--|------------|
| | | | | 174.9 | lr | m2 | 119.04 | | 20820 |
| | | | | | | | | | |
| | ?? Per vide | ent in deta | lls | | | | | | |
| | TT FEI VIGE | 11 110-5 | 15mm thick out side (4:1) | \ | | | | | |
| | | | Onty | 129.016 | r | m2 | 119.03 | | 15357 |
| | | | | | | | | | |
| 13 | | | Inning about 1.5 mm thick | | | | | | |
| | GL to P.L | etc I | 1x11.00x0.75= | 8.25 | - I | n2 | | | |
| | GE 60 1 .E | | 1x6.32x0.75= | 4.74 | $\overline{}$ | n2 | | | |
| | | | 1x6.47x0.75= | 4.85 | r | m2 | | | |
| | | | 1x3.64x0.75= | 2.73 | | n2 | | | |
| | | | 1x3.25x0.75= | 2.44 | | m2 | | | |
| | Step Bed room | | 1x1.80x1.20= 2x3.6x3.6= | 2.16 25.92 | | m2 m2 | | | |
| | Dea room | | 1x3.6x4.24= | 15.26 | | n2 | | | |
| | Dining | | 1x4.24x3.33= | 14.119 | | m2 | | | |
| | Kitchen | | 1x3.33x2.140= | 7.992 | $\overline{}$ | m2 | | | |
| | Ver | | 1x4.74x1.20= | 5.688 | | m2 | | | |
| | + | | | 94.149 | r | m2 | 28.51 | | 2684 |
| 14 | P-91 (iii) G | l rav artificial | l stone, floor, dado | | | | | | |
| | It-03 | | | | | | | | |
| | Qnty= | | | 57.758 | r | n2 | 190.49 | | 11002 |
| | | | | | | | | | |
| 15 | | | of approves quality fitters | | | | | | |
| | 7?? | ixed comple | 100mmx58mmx1.25mm | | | | | | |
| | Door | | 6x2 | 12 | | No | 45.7 | | 548 |
| | 1500. | | ??x50mmx1.25mm | | ' | | 1017 | | 0.10 |
| | Window | | 11x4 | 44 | 1 | οV | 28.28 | | 1244 |
| | | | | | | | | | |
| 16 | | | of approved quality fitted | | | | 25.00 | | 500 |
| | It-24 and t | ixed comple | ete I | 22 | P | No | 35.99 | | 792 |
| 17 | P-197 Iron | socket bolt | of approved quality fitted | | | | | | |
| | | ixed comple | | | | | | | |
| | Door | | 225mmx10mmx10mm bo | olt= | | | | | |
| | | | 6x2 | 12 | P | No | 79.59 | | 955 |
| | Window | | 100mmx10mm dia bolt 11x2 | 22 | | | 20.20 | | 064 |
| 18 | P-199 iron | hans holt o | f approved quality fitted | 22 | | No | 39.29 | | 864 |
| 10 | | ixed comple | | | | | | | |
| | | | 300mm long for door | | | | | | |
| | | | 6x1 | 6 | 1 | No | 182.91 | | 1097 |
| 19 | P-7777 | | nandle of approved quality | fitted | | | | | |
| | lt-?? | and fixed o | 17x2 | 34 | | No | 36.34 | | 1236 |
| | + | | 1772 | 34 | <u>'</u> | 10 | 30.34 | | 1250 |
| 20 | P-243 Z- ba | atten shutte | er of door and window as | | | | | | |
| | It-94 per d | | etc | | | | | | |
| | | Local hard | | | | - | | | |
| | + | - | 6x2.05x0.99= 11x1.05x0.80= | 12.0177 9.24 | r | m2 | | | |
| | + | | 6x1.20x0.50= | 3.6 | | | | | |
| | | | | 25.017 | r | m2 | 2150.29 | | 53794 |
| | | | | | | | | | |
| 21 | | | with " Ela" with coat | ath arts | | at- | | | |
| | 2(Two) coa | | including cleaning & smo 129.016m2x2 | othening surfa 258.032 | | etc n2 | 1390.77% | | 3589 |
| | 2(1W0) CO | ica Qiity= | TES.UIGHIERE | 236.052 | r | 114 | 1330.//% | | 3589 |
| 22 | P-343 (a) p | riming one | coat on timber or plaster | | | | | | |
| | | | ved quality | | | | | | |
| | | | 6x2x2.05x0.99= | 24.354 | $\overline{}$ | m2 | | | |
| | + | | 11x2x1.05x0.80= | 18.48 7.2 | | n2 n2 | | | |
| | + | | 6x2x1.20x0.50= | 7.2 50.034 | _ | n2 n2 | 28.38 | | 1420 |
| | 1 | l | | 201004 | i i | | | | L-720 |
| 23 | | | h best quality synthetic en | | | | | | |
| | lt-08 | | proved make and brand | | | | | | |
| | | Quantity= | | 50.034 | r | m2 | 36.97 | | 1850 |
| | + | | 1 | | | | | | |
| 2/1 | P-121 (B) (| alvanicad - | orrugated iron sheet worl | k | | | | | |
| 24 | | | corrugated iron sheet worl | k | | | | | |
| 24 | | uding the s | corrugated iron sheet work upporting frame) nm thick shut | k | | | | | |
| 24 | lt-24 (excl | uding the s | upporting frame) nm thick shut 13.27x5.26= | 69.8 | r | m2 | | | |
| 24 | lt-24 (excl | uding the s | upporting frame) nm thick shut | | | m2 m2 | 555.95 | | 51737 |

| 25 | P-135 (a) G | aivanised i | ron sheet ridging minimun | า | | | | | |
|----|------------------|-------------|----------------------------|---------|------------|-------------------|-------------|---|---------|
| | lt-30 | 250mm an | d above Lap each way and | fitted | | | | | |
| | | with neces | sary.bolt, screw,washer et | c | | | | | |
| | | | 6x6.15= | 36.9 | | m | 292.62 | | 10798 |
| | | | | | | | | | |
| | | | | | | | | | |
| 26 | | | vork with hollow section | | | | | | |
| | It- 2A (TAT | A makes so | uare of rectangular shape | | | | | | |
| | | etc, com | plete) | | | | | | |
| | I) For roof | truss work | | | | | | | |
| | (a) span upto 12 | oto 12 m | 2x6.30x5.375 | 67.725 | | m2 | | | |
| | ver | | 1x1.8x4.5 | 8.1 | | m2 | | | |
| | | | | 75.825 | | m2 | | | |
| | | | at 9.00 kg/sqm | 682.425 | | kg | 72.69 | | 49605 |
| | | | | | | | | | |
| | | | | | | | | | 565994 |
| | | | | | Add S & P | work total rs + L | S | | 30000 |
| | | | | | | | | | 595994 |
| | | | | | Add contir | igency- 2 % | | | 11920 |
| | | | | | | | Gross Amoun | t | 607,914 |

NORTH BENGAL GR D QRT SINGLE

| | | Estimate for proposed Construction o | f Group - D q | uarter | | |
|------------|--------------------|---|---------------|----------|-----------|-------------|
| SI .No. | Page & Item | Description of Item | Unit | Quantity | Rate (Rs) | Amount(Rs) |
| 1 | P-1/1-2(a) &()e-1) | Earth work in excavation of foundation trenches or drains all sorth (including mixed soil but excluding latarite or sandstone)including removing.the item includes necessary trimming the sides of tenches, levelling, dressing and ramming the bottom bailing out as require complete. | | | | |
| | | A) Depth of excavation not exceeding 1500 mm | %Cum | 8.732 | 9221.3 | 80520.391 |
| 2 | P-3/1-3(a) | Earth work in filling in foundation trenches or Pinth with good earth in layers not exceeding 150mm, including watering and ramming etc. by layer complete A) With earth obtained from excavation of | | | | |
| | | foundation | | | | |
| | | 1/5 of the excavation ©(iii) With carried earth arranged by the contractor with in a radius of 3 km . Inclinding the | % Cum | 1.75 | 5949.4 | 10411.45 |
| | | cost of carried earth. | % Cum | 21.54 | 34432.66 | 741679.4964 |
| 3 | P-99/1-13 | Supplying and laying polythene Sheet (150gm / sq.m) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches | Sqm. | 54.94 | 18.95 | 1041.113 |
| 4 | P-59/1-10(II) | Cement concrete with (30 mm down) graded Shingles excluding shuttering | | | | |
| | | N.B Variety | | | | |
| | | (A)6:3:1 proportion | | | | |
| | | (i) ground floor Soling Area x 0.075 | Cum | 4.121 | 3225.86 | 13293.76906 |
| 5 | P-39/1-7(ii) | Ordinary cement concrete (mix1:2:4) with graded stone chips (20 mm nominal size excluding shuttering and reinforcement if any in ground floor | | | | |
| | | (A) River bazree. In ground floor | Cum. | 6.236 | 3972.8 | 24774.3808 |
| 6 | P-65/1-15(a) | Reinforcements of reinforced cement concrete work in all sorts of structures including distribution bars, stirrups ets. Including supply of rods, initial straightening and removal of loose rusts (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black anniealed wire at every inter- sections, complete as per drawing and direction (a) for work in foundation, basement and up to roof of ground floor / up 4m. Steel / Mild steel | | | | |
| | | moor / up 4m. steel / IVIIIu Steel | i | 1 | | ī |

| | | | ı | ı | | 115 |
|------------|--------------|---|-------------|----------|-----------|-------------|
| SI .No. | Page & Item | Description of Item | Unit | Quantity | Rate (Rs) | Amount(Rs) |
| 7 | P-61/1-12(a) | Hire and labour charges for shuttering with centering and necessary staging upto 4m using approved stout props thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting fixing and stricking out after completion work (upto roof of ground floor) | | | | |
| | | (a) 25mm to 30mm thick wooden shutters as per direction and decision of E.I.C. A) Ground floor | Carro | 58.191 | 278.17 | 16106 00047 |
| | | A) Ground floor | Sqm. | 58.191 | 2/8.1/ | 16186.99047 |
| 8 | P-69/1-22 | Brick work with 1st class bricks in cement mortar(6:1) | Course | 0.145 | 2054 57 | 22405 52765 |
| | | a) in foundation and plinth | Cum. | 8.145 | 3951.57 | 32185.53765 |
| 9 | P-73/1-29 | 125mm thick brick work with 1st class bricks in cement mortar (4:1) th H.B netting in every third layer | | | | |
| | | a) in ground floor | Sqm. | 90.4 | 546.82 | 49432.528 |
| 10 | P-179/1-1 | Wood work in door and window frame and fixed complete including a protective coat of painting at the contast surface of the frame. Sal i)In ground floor | Cum | 0.583 | 87019 | 50732.077 |
| | | i,i.i. gi ound noo. | Cuiii | 0.505 | 0,013 | 307321077 |
| 11 | P-189/1-18 | S.F.F M.S clamp for fixing door window frame made of flat bent bar and bidurcated, fixed in cement concrete mortar with stone chips (4:2:1) fitted and fixed complete, As per drawing | | | | |
| | | 40mmx 6mm above 250 mm length | Each 64.000 | 64 | 34.3 | 2195.2 |
| 12 | P-319/1-2 | Plaster(to all floor celling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and taking out joints or roughening of concrete suface including throating nosing and drip course where necessary (ground floor) | | | | |
| | | a)with (6:1) cement 20mm thick (internal) | Cam | 153 | 130.94 | 20033.82 |
| | | 1)Gr. Floor (inside) a) with (6:1) cement 15 mm thick (External) | Sqm | 133 | 130.54 | 20033.02 |
| | | 1)Gr. Floor (inside) | Sqm. | 90 | 111.57 | 10041.3 |
| | | b)Inside (4:1) cement mortar, 10 mm thick plaster | C | | 402.21 | 4202.53 |
| | | i)Gr. Floor | Sqm. | 42 | 102.21 | 4292.82 |
| 13 | P-323/1-8 | Neat cement punning about 1.5 mm thick wall, dado,window sills, floor, drain etc.Note- Cement 0.152 cum. Per 100 sq.m | Sqm. | 30 | 31.36 | 940.8 |
| 14 | P-91/1-3 | Arfificial stone in floor, dado staircase etc. with cement concrete (1:2:4) with stone chips lais in panels as direted withtopping made with ordinary or white cement (as necessary) and marbel dust in proportion (2:1) including smooth finishing and rounding off corners and application of cement sturry @1.75Kg./sqm.all complete including and materials and labours. In ground floor 3mm thick topping. | | | | |

| | i) 25 mm thick | | |
|-----|----------------|--|---|
| 116 | | | , |
| | | | |

| 116 | 1 | T | | | | |
|------------|------------------------|---|-------|----------|-----------|------------------------|
| SI .No. | Page & Item | Description of Item | Unit | Quantity | Rate (Rs) | Amount(Rs) |
| | | a) GR Floor | Sqm | 39.5 | 235.12 | 9287.24 |
| | | | | | | |
| | -18 | | | | | |
| 15 | P-191/1-18 | | | | | |
| | -19 | Iron butt hinge of approved quality fitted and fixed | | | | |
| | ۵ | with steel scew (bearing ISI mark.) | | | | |
| | | a) 100mmx 58mm x1.90mm | - 1 | 24 | 45.70 | 4007.53 |
| | | DOOR | Each | 24 | 45.73 | 1097.52 |
| | | b)50mm x37mm x1.50mm Window | Fach | 28 | 15 14 | 422.02 |
| | | Willdow | Each | 28 | 15.14 | 423.92 |
| | 52 | | | | | |
| 4.0 | P197/1-2 | | | | | |
| 16 | 261 | Iron socket bolt approved quality fitted and fixed | | | | |
| | P1 | complete | | | | |
| | | c)100 mm long x 10mm dia bolt. | | | | |
| | | Window | Each | 28 | 39.29 | 1100.12 |
| | | d)150 mm long x 10mm dia bolt | | | | |
| | | | | | | |
| | | DOOR | | 12 | 58.52 | 702.24 |
| | P-199/1-2. | Iron haps bolt of approved quality fitted and fixed | | | | |
| 17 | /66 | complete (galvanised) with 16 mm dia rod with | | | | |
| | P-1: | central bolt and round fittings, | | | | |
| | _ | a) 250mm long | Each | 2 | 173.54 | 347.08 |
| | | ay 230mm long | Lucii | | 173.34 | 347.00 |
| | 59 | | | | | |
| 40 | P-215/1-65 | | | | | |
| 18 | 215 | Anodised aluminium D-type handle of approved | | | | |
| | ظ | quality fitted and fixed complete | | | | |
| | | a) With continuous plate. | | | | |
| | | Window | | | | |
| | | vi) 100 mm grip x 10 mm dia rod | | | | |
| | | Door | | | | |
| | | vii) 150mm grip x 10mm dia rod | Each | 22 | 100.22 | 2204.84 |
| | | | | + | | |
| | | 7 hotton shuttons of door and window on nor | | | | |
| | 94 | Z- batten shutters of door and window, as per design having tonguced and groove - half lap | | | | |
| 10 | /1- | jointed as per direnction of the Engineer- in charge | | | | |
| 19 | P-243/1-94 | in cluding fitting and fixing shutter in position but | | | | |
| | P-, | excluding the cost of hinge and other fittings in | | | | |
| | | ground floor | | | | |
| | | (A) Shutters with 25mm thick planks, 19mm thick | | | | |
| | | battens | | | | |
| | | (iii) Sishu, Gamar, Champ, Badam, Bhola, Mogra, | | + | | |
| | | | 1 | | | |
| | | I | | | | |
| | | Hallak | Sa.m. | 17.62 | 2150 29 | 37888 1098 |
| | | I | Sq.m. | 17.62 | 2150.29 | 37888.1098 |
| | <u> </u> | Hallak | Sq.m. | 17.62 | 2150.29 | 37888.1098 |
| 20 | 19/1-3 | Hallak In Ground floor | Sq.m. | 17.62 | 2150.29 | 37888.1098 |
| 20 | -329/1-3 | Hallak In Ground floor White washing including clearing and | Sq.m. | 17.62 | 2150.29 | 37888.1098 |
| 20 | P-329/1-3 | Hallak In Ground floor White washing including clearing and smoothening the suface thoroughly in all floor | Sq.m. | 17.62 | 2150.29 | 37888.1098 |
| 20 | P-329/1-3 | Hallak In Ground floor White washing including clearing and smoothening the suface thoroughly in all floor II) Theee Coats | | | | |
| 20 | P-329/1-3 | Hallak In Ground floor White washing including clearing and smoothening the suface thoroughly in all floor | Sq.m. | 17.62 | 2150.29 | 37888.1098 3067.875 |
| 20 | | Hallak In Ground floor White washing including clearing and smoothening the suface thoroughly in all floor II) Theee Coats I) Gr.Floor | | | | |
| 20 | | Hallak In Ground floor White washing including clearing and smoothening the suface thoroughly in all floor II) Theee Coats I) Gr.Floor Priming one coat on Steel or other metal surfce | | | | |
| 20 | | Hallak In Ground floor White washing including clearing and smoothening the suface thoroughly in all floor II) Theee Coats I) Gr.Floor Priming one coat on Steel or other metal surfce with synthetic enamel oil bound primer of | | | | 37888.1098 3067.875 |
| | P-343/1-7(b) P-329/1-3 | Hallak In Ground floor White washing including clearing and smoothening the suface thoroughly in all floor II) Theee Coats I) Gr.Floor Priming one coat on Steel or other metal surfce with synthetic enamel oil bound primer of approved quality including smoothening surface | | | | |

| | | | ı | 1 | - | |
|------|--------------|---|-------|----------|-----------|-------------|
| | 7(b) | Priming one coat on steel or other metal surface | | | | |
| 22 | o-343/1-7(b) | with synthetic enamel. Oil bound primer of | | | | |
| | 343, | approved quality including smoothening surface | | | | |
| | P-3 | by sand papering etc. | Sq.m | 7.5 | 24.98 | 187.35 |
| | | | | | | 117 |
| SI | D 0 H | Description of them. | 11 | 0 | D-4- (D-) | A + (D -) |
| .No. | Page & Item | Description of Item | Unit | Quantity | Rate (Rs) | Amount(Rs) |
| | | | | | | |
| | P-343/1-8(A) | Painting with best quality synthetic enamel paint | | | | |
| 23 | 7 | of approved make and brand including smoothing | | | | |
| | 343 | surface by sand papering etc. including using | | | | |
| | д. | approved putty etc.on the surface if necessary: | | | | |
| | | A)On timber or plastered surface (with super | | | | |
| | | gloss) two coats | | | | |
| | | Two coats (with any shade except white) | | 30 | 67.63 | 2028.9 |
| | | B) On steel or other metal surface (with super | | | | |
| | | gloss-hi-gloss) | | | | |
| | | Two coats (with any shade except white) | Sq.m. | 7.5 | 58.47 | 438.525 |
| | | | | | | |
| | 10 | M.C. or W.L. Ornamontal cuille of annual of distance | | | | |
| 24 | /1- | M.S or W.I. Ornamental grills of approved design | | | | |
| 24 | P-155/1-10 | joints continuously welded with M.S flats and bars of windows, railing etc. fitted and fixed with | | | | |
| | P-, | necessary screws and lugs in ground floor. | | | | |
| | | i) Grill weighing above 10 kg/ sqm. And up to 16 | | | | |
| | | kg/sqm. | | | | |
| | | ii) In Gr. Floor | Qtl | 0.75 | 6701.3 | 5025.975 |
| | | | | | 0.010 | 000000 |
| | | | | | | |
| | | Galvanised corrugated iron sheet work(excluding | | | | |
| | 34 | the supporting frame work) fitted and fixed with | | | | |
| | ./1- | 10mm dia J or L hook- bolts, limpet and bitumen | | | | |
| 25 | PO-131/1-34 | washers and putty complete with 150mm end lap | | | | |
| | ó | and one corrugation minimum side lap (payament | | | | |
| | _ | to be made on area of finished work) (GCI sheet to | | | | |
| | | be supplied by contractor) | | | | |
| | | (i) In Roof | | | | |
| | | B) With 0.60 mm thick sheet | sqm. | 64.15 | 533.64 | 34233.006 |
| | | | | | | |
| | 1-3(| Galvanised iron sheet ridging fitted with necessary | | | | |
| 26 | 35/ | bolts, screws, washers etc. complete. (225 mm | | | | |
| | P-135/1-3(| end lapping) | | | | |
| | | (A) 300mm lapping each way | | | | |
| | | (b) with 0.60 mm sheet | Mtr. | 20.5 | 292.62 | 5998.71 |
| | | | | | | |
| | | | | | | |
| | | M.S structural works in roof trusses with tubular | | | | |
| | | sections conforming to IS 806-1957 & IS: 1161- | | | | |
| | C. | 1958 connected to one another with breacket, | | | | |
| | P-147/1-2 | gusset cleats as per design, direction of Engineer- | | | | |
| 27 | 147, | in charge complete including cutting to requisite | | | | |
| | P-1 | size, fabrication with necessary metal are welding | | | | |
| | | conforming to IS: 816-1956 & IS: 9595 using | | | | |
| | | electrodes of approved make and beand | | | | |
| | | conforming to ISA 815- 1957 ,haulage,hoisting and | | | | |
| | | erection all comnlete | | | | |
| | | The rate includes the cost of rolled steel section | | | | |
| | | consumables such as electrodes, gas and hire | | | | |
| | | charge of all tools and plants and labour required | | | | |
| 1 | | for the work including all incidental chargessuch as | | | | |
| | | | | | | |
| | | electricity charges, labour insurance charges etc | | | | |
| | | | MT | 0.75 | 68105.31 | 51078.9825 |

| | | | | | | | | | | | | | 133 |
|--|---|--------|--------|---------|------------|----------|-------|-----------|------------|---------|-----------------|------|-----|
| | 633 | | | MODE | L ESTIN | IATE FO | R E | BARRACK | (SINC | SLE UNI | T) | | 133 |
| | Place of work - Darjeeling Forest Division | | | | | | | | (| | -, | | |
| | Nature of Work: Making of single unit bar | rack E | arrack | under I | Darjeeling | Forest I | Divis | sion | | • | 1 | | |
| SI No. | Description of Item | Side | Nos. | Length | Breadth | Height | | Quanthity | Unit | Rate | Amount (Rs.) | | |
| | (Page-01, Item No2) | | | | | | | | | | | | |
| | Earth work in excavation of foundation trenches or drains. in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing. spreading or stacking the spils within a lead of 75 m. as directed. The item includes necessary | | | | | | | | | | | | |
| | trimming the sides of trenches. leaving, dressing and ramming the bottom. bailing out water as required complete. | | | | | | | | | | | | |
| | (a) Depth of excavation not exceeding 1500mm. | | | | | | | | | | | | |
| | | 1 | 2 | 6 | 0.4 | 0.6 | = | 2.88 | cum | | | | |
| | | 1 | 2 | | | 0.6 | = | | cum | | | | |
| | | 1 | 1 | | 0.4 | 0.6 | ш | 1 | cum | | | | |
| | | | | | | | = | 5.38 | cum | 120.46 | 647.59 | | |
| | (page no. 479, Item no. 61) Labour for laying 150 mm to 200 mm boulder soling including rough dressing hand packing and ramming down small pieces in the interstics including rolling and preparting the bed to proper level and filling up all joints with sandy clay or earth including supply of stones. | | | | | | | | | | | | |
| | | 1 | 2 | 6 | 0.4 | | = | 4.80 | Sqm | | | | |
| | | 1 | 2 | | | | = | | Sqm | | | | |
| | | 1 | 1 | 2.4 | 0.4 | | = | | Sqm | | | | |
| | | | | | | | = | 8.96 | Sqm | 51 | 456.96 | | |
| | COST OF BOULDER | | | | | | | 1.344 | CUM | 1272 | 1709.57 | | |
| | | | | | | | | | | | | | |
| _ | | | | | | | | | | | | | |
| | Page 36 ltm no. 53(b)(ii): Rubble Masonry in cement (6:1) with hard dressed stones from approved quarries and clean, coarse and washed sand including carriage of all materials to site.(in groudn floor) | | | | | | | | | | | | |
| | i) in ground floor | | | | | | | | | | | | |
| | CRM | 1 | 2 | | | 0.6 | | | Sqm | | | | |
| | | 1 | 2 | | | 0.6 | = | | Sqm | | | | |
| | | 1 | 1 | 2.4 | 1.5 | 0.6 | = | | Sqm Sqm | 4818 | 23126.40 | | |
| | Page 3 ltm no. 3(a): Earth work in filling of foundation trenches or drains. in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing. spreading or stacking the spils | | | | | | | 7.00 | -4111 | -1010 | 23120.40 | | |
| <u> </u> | within a lead of 75 m. as directed. The item | | | | 1 | | | | | | | | |
| | | 1 | 1 | 5.7 | 3.7 | 0.4 | = | 8.44 | Sqm | | | | |
| | | | | | | | = | | Sqm | 78.31 | 660.62 | | |
| | (page no. 479, Item no. 61) Labour for laying 150 mm to 200 mm boulder soling including rough dressing hand packing and ramming down small pieces in the interstics including rolling and preparting the bed to proper level and filling up all joints with sandy clay or earth including supply of stones. | | | | | | | | | | | | |
| | | 1 | 1 | 5.7 | 3.7 | | = | 21.09 | Sam | | | | |
| | | 1 | 1 | 5./ | 3./ | | = | 21.09 | sqm | | | | |

| 134 | | | | | | | | | | | | | |
|-----------|---|------|------|--------|---------|--------|---|-----------|------|--------|-----------------|-------|-------|
| SI No. | Description of Item | Side | Nos. | Length | Breadth | Height | | Quanthity | Unit | Rate | Amount (Rs.) | | |
| | | | | | | | = | 21.09 | Sqm | 51 | 1075.59 | | |
| | COST OF BOULDER | | | | | | | 3.1635 | CUM | 1272 | 4023.97 | | |
| | P-59, item no - 10(ii) | | | | | | | | | | | | |
| 4 | Cement concrete with down graded shingles | | | | | | | | | | | | |
| | excluding shuttering | | | | | | | | | | | | |
| | a) in ground floor | | | | | | | | | | | | |
| | foundation | 1 | 2 | 6 | 0.4 | 0.1 | = | 0.48 | cum | | | | |
| | | 1 | 2 | | | 0.1 | = | | cum | | | | |
| | | 1 | 1 | | | | = | | cum | | | | |
| | | 1 | 1 | 2.4 | 1.5 | 0.1 | = | | cum | | | | |
| | | | | | | | = | 3.56 | cum | 7116 | 25332.96 | | |
| | | | , | | 1 | | | | | | | | |
| | P-73, item no29 | | | | | | | | | | | | |
| 7 | 125mm thick brick work with 1st class bricks in cement morta (1:4) in ground floor | | | | | | | | | | | | |
| | | 2 | 0.9 | 6 | 1 | | = | 10.80 | cum | | | | |
| | | 2 | 0.9 | 4 | | | = | | cum | | | | |
| | | 2 | 0.9 | 1.5 | | | = | | cum | | | | |
| | | 1 | 0.5 | 1.3 | | | = | 20.70 | | 1102.8 | 22827.96 | 919 | |
| | | | | | | | Ė | 20.70 | Sum | 1102.0 | 22027.50 | 183.8 | |
| | P-181 item no. 3 | | | | | | | | | | | 200.0 | |
| 8 | Wood work in post post plates, rafters, | | | | | | | | | | | | |
| _ | battens, trush members, purlins etc. | | | | | | | | | | | | |
| | (d) Sal: Local | | | | | | | | | | | | |
| | i) Ground floor | | | | | | | | | | | | |
| | Post | 20 | 1 | 1.5 | 0.1 | 0.075 | = | 0.23 | | | | | |
| | Plate | 4 | 6 | | | 0.075 | | 0.18 | | | | | |
| | rafter | 2 | 4 | | | 0.075 | | 0.24 | | | | | |
| | purlin | 3 | 1 | | | 0.075 | | 0.04 | | | | | |
| | F | | _ | | | | | 0.68 | | 100460 | 68752.31 | | |
| | | | | | | | | | | | | | |
| 9 | P-179-Item no. 1 (d) | | | | | | | | | | | | |
| | Wood work in door and window frame fitted and fixed in position complete including a protective cost of painting at the contace surface of the frame excluding cost of concrete, Iron butt Hinges and M.S. chlamps etc. | | | | | | | | | | | | |
| | (d) Sal: Local | | | | | | | | | | | | |
| | i) Ground floor | | | | | | | | | | | | |
| | door vertical | 1 | 1 | 2 | 0.1 | 0.075 | = | 0.02 | | | | | |
| | horozontal | 1 | 1 | | | 0.075 | | 0.01 | | | | | |
| | fixed window vertical | 6 | 1.2 | | | 0.075 | | 0.22 | | | | | |
| | horozontal | 6 | 0.9 | | | 0.075 | _ | 0.16 | | | | | |
| | | | | | | | | 0.40 | | 100382 | 40127.86 | | |
| | | | | | | | | | | | | | |
| | Page-223 item 88 (ii) (b) | | | | | | | | | | | | |
| | Glazed shutters of doors, windows, fan light, clerestory windows etc. as per design (with | | | | | | | | | | | | |
| | ordinary glass of 7.4 kg/sq.m. 3mm. Thick) fitted with putty bed and teak wood bead and nails etc. | | | | | | | | | | | | |
| | (ii) 35mm thick shutters. | | | | | | | | | | | | |
| | (b) Champ, Sishu | | | | | | | | | | | | |
| | i) Ground floor | | | | | | | | | | | | |
| | Window | 1 | 6 | 1.2 | 0.9 | | = | 6.48 | sqm | | | | |
| | | | | | | | | | sqm | 3561.6 | 23079.17 | | 2968 |
| | | | | | | | | | | | | | 593.6 |
| | Page-235 item 90 | | | | | | | | | | | | |
| 11 | Sutter of 1/3rd panel, 2/3 glazed of doors and windows, as per desin (each panel consisting of single plank etc. | | | | | | | | | | | | |

| | | l | 1 | | 1 | | | 1 | | | 1 | |
|-----------|---|------|------|--|--|--------|----------|-----------|------------|--|--|-------|
| | | | | | | | | | | | | 135 |
| SI No. | Description of Item | Side | Nos. | Length | Breadth | Height | | Quanthity | Unit | Rate | Amount (Rs.) | 155 |
| | (ii) 40mm thick shutters with 19mm | | | | | | | | | | , , | |
| | thickpanal of size 30 to 45 cm. | | | | | | | | | | | |
| | (b) Champ, Sishu | | | | | | | | | | | |
| | i) Ground floor | | | | | | | | | | | |
| | door | 1 | 1 | 0.9 | 2.1 | | = | | sqm | | | |
| | D 400 H 407 S | | | | | | | 1.89 | sqm | 2276.4 | 4302.40 | 1897 |
| 9 | Page 120 ltm no.127 © Ceiling with 18 mm. thick wooden planks | | | | | | | | | | | 379.4 |
| | fitted and fixed complete (excluding the | | | | | | | | | | | ļ |
| | supporting framework (as per direction of | | | | | | | | | | | ļ |
| | the Engineer-in –charge.) | | | | | | | | | | | ļ |
| | Wall | | 6 | 1.5 | | | = | | Sqm | | | |
| | Celing | 1 | 6 | 4 | | | = | | Sqm | | | |
| | | | 1 | 1.2 | 0.0 | | = | | Sqm | | | |
| | Less window door | 1 | 1 | | | | = | | sqm sqm | | | |
| | 4001 | 1 | | 0.5 | 1.2 | | | | sqm | | | |
| | | | | | | | | 52.44 | | 1336.8 | 70101.79 | 1529 |
| | Page-189, Item -18 | | | | | | | - | | | | 305.8 |
| 12 | Supply, fitting and fixing M.S. clamps for door | | | | | | | | | | | |
| | and window frame made of flat bent bar, end | | | | | | | | | | | ļ |
| | bifurcated with necessary screws etc. by | | | | | | | | | | | ļ |
| | cement concrete (1:2:4) as per dircetion. | | | | | | | | | | | ļ |
| | | | | | | | | | | | | |
| | (b) 40mmx6mm, 200mm length | | | | | | | | | | | |
| | i) ground floor | | | | | | | | | | | |
| | for door frame | 1 | 6 | | | | = | | nos. | | | |
| | for wondow frame | 6 | 6 | | | | = | 1 | nos. | 2.0 | | _ |
| | | | | | | | | 42 | nos. | 34.8 | 1461.60 | _ |
| | | | | | | | | | | | | _ |
| | Page-197, Item -25 | | | | | | | | | | | _ |
| 13 | Iron socket bolt of approved quality fitted | | | | | | | | | | | _ |
| | and fixed complete | | | | | | | | | | | |
| | (c) 150mmx10mm dia | | | | | | | | | | | |
| | i) ground floor | | | | | | | | | | | |
| | window | 6 | 2 | | | | = | 12 | nos. | | | |
| | | | | | | | | 12 | nos. | 72.44 | 869.28 | |
| | (e) 300mm long x10mm dia | | | | | | | | | | | |
| | i) ground floor | | | | | | | | | | | |
| | door | 1 | 2 | | | | = | | nos. | | | |
| | 0.245 () | | | | | | | 2 | nos. | 123.85 | 247.70 | |
| 1/ | P-215 item no65 Anodised aliminium D-type handle or | | | | | | 1 | | | <u> </u> | | |
| 14 | approved quality | | | | | | | | | | | ļ |
| | (ii) 100mm grip x 10mm dia | | | | | | | | | | | _ |
| | i) ground floor | | | | | | | | | | | |
| | Window | 6 | 2 | | | | = | 12 | nos. | | | - |
| | | | | | | | | | nos. | 102 | 1224.00 | |
| | | | | | | | L | | | | | |
| | (ii) 150mm grip x 12mm dia | | | | | | | | | | | |
| | i) ground floor | | | | | | | | | | | |
| | Door | 1 | 2 | | | | = | | nos. | | | |
| | | | | | | | | 2 | nos. | 149.18 | 298.36 | |
| | | | | | ļ | | <u> </u> | | | | | |
| 4- | P-191, Item no20 | | 1 | - | <u> </u> | | <u> </u> | | | | | |
| 15 | Iron bult hings of approved quality fitted and | | | | | | | | | | | |
| | fixed etc. (ii) 75mmx47mm x 1.70mm | | | - | - | | | | | | - | |
| | i) ground floor | | | | | | | | | | 1 | + |
| i | i | 6 | 4 | | | | = | 24 | nos. | | | _ |
| | Window | | | | | | _ | /4 | 11105 | 1 | | |

| | L 10 400 | 1 | 1 | 1 | 1 | ı | | | ı — | 1 | 1 | - 1 | |
|-----------|---|------|------|--------|-----------|--------|--------------|-----------|----------|--------|-----------------|-----|--|
| | (vii) 100mm x 58mm x1.90mm | | | | | | | | | | | | |
| | i) ground floor | | | | | | | | | | | | |
| 136 | | | | | | | | | | | | | |
| SI No. | Description of Item | Side | Nos. | Length | Breadth | Height | | Quanthity | Unit | Rate | Amount (Rs.) | | |
| | Door | 1 | 3 | | | | = | | nos. | | | | |
| | | | | | | | | 3 | nos. | 62.4 | 187.20 | | |
| | P-199, Item no. 27 (i) | | | | | | | | | | | | |
| 16 | Iron hasp bolt of approved quality fitted and | | | | | | | | | | | | |
| | fixed complete (oxidised) with 16mm dia | | | | | | | | | | | | |
| | road with centre bolt and round fitting | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | c) 300mm long | | | | | | | | | | | | |
| | i) ground floor | | | | | | | | | | | | |
| | Door | 1 | 1 | | | | = | | nos. | | | | |
| | 0. 424 % 24 | | | | | | | 1 | nos. | 228.94 | 228.94 | | |
| 47 | Page -131 it 24 | | | | | | | | | | | | |
| 1/ | Galvanised corrugated iron sheet work | | | | | | | | | | | | |
| | (excluding the supporting frame work complete | | | | | | | | | | | | |
| | - | | | | | | | | | | | | |
| | a) In roof a) With 0.60mm thick sheet | | | | | | | | | | | | |
| | roof | 1 | 2 | 3.5 | 5 | | = | 35 | | | | | |
| | 1001 | 1 | 2 | | | | = | 7.2 | | | | | |
| | | - | | 2.4 | 1.3 | | = | 42.2 | | 900 | 37980.00 | | |
| | P-135 itme 30 | 1 | 1 | | | | - | 42.2 | | 300 | 37,300.00 | | |
| 18 | Galvnised iron sheet ridging | | | | | | | | | | | | |
| | A) 300 mm laping each way | | | | | | | | | | | | |
| | a) with 0.60mm sheet | | | | | | | | | | | | |
| | -, | 1 | 1 | 1 | 8 | | = | 8 | | | | | |
| | | | _ | _ | | | = | 8 | | 510 | 4080.00 | | |
| | P-319, item no - 02 | | | | | | | | | | | | |
| 20 | and cement morter including rounding off or | | | | | | | | | | | | |
| | chamferingetc | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Floor | 1 | 1 | | | | = | 24.00 | | | | | |
| | Wall | 2 | 2 | | | | = | 21.60 | | | | | |
| | Wall | 2 | 2 | | | | = | 14.40 | sqm | | | | |
| | | 2 | | 1.5 | 0.9 MK | | = | 65.40 | | | | | |
| | | | | | IVIN | D-A | | 05.40 | sqiii | | | | |
| | Deduction for opening :- | | | | | | | | | | | | |
| | door | 1 | 2 | 0.9 | 1 | | = | 1 90 | sqm | | | | |
| | 4001 | - | | 0.9 | MK | | Ť | | sqm | | | | |
| | | | | | MKD-a | | | 63.60 | | | | | |
| | | | | | | | | 63.60 | | 175.2 | 11142.72 | | |
| | | | | | | | | | <u> </u> | | | | |
| 21 | Net purning cement | 1 | 1 | 6 | 4 | | = | 24.00 | sqm | 39 | 936.00 | | |
| | priming one coat on timber, plaster | | | | | | | | <u> </u> | | | | |
| | a) on timber or plaster surface | | | | | | | | | | | | |
| | Room | 2 | 2 | 2.4 | 6 | | = | 57.60 | sam | | | | |
| | | 2 | 2 | | | | = | 38.40 | | | | | |
| | door | 1 | 2 | | | | = | | sqm | | | | |
| | Window | 6 | 2 | | | | = | 12.96 | | | | | |
| | | | | | | | | 110.76 | | 50.4 | 5582.30 | | |
| | 'It P-343, Item - 8 | | | | | | | | | | | | |
| 23 | (A) Painting with best quality synthetic enamel paint of approved makeetc | | | | | | | | | | | | |
| | a) on timber or plastered surface with super gloss (hi-gloss) | | | | | | | | | | | | |
| | ii) Two coats (white in shade) | 2 | 2 | 1.5 | 6 | | = | 36.00 | sqm | | | | |
| | , | 2 | 2 | | | | = | 24.00 | | | | | |
| | | | | | | | | 60.00 | | 103.2 | 6192.00 | | |
| | P-335, Item-16 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | | | | | | | | | | | | | 137 |
|-----------|---|---------|--------------|---------|------------|--------|---|-----------|------|------|-----------------|--|-----|
| SI No. | Description of Item | Side | Nos. | Length | Breadth | Height | | Quanthity | Unit | Rate | Amount (Rs.) | | |
| | Applying decorative cement based paint of approved quality after preparing the surface including scraping the same throughly etc. | | | | | | | | | | | | |
| | iii) Two coats | | | | | | | | | | | | |
| | | 1 | 2 | 6 | 0.9 | | = | 10.80 | sqm | | | | |
| | | 1 | 2 | 4 | 0.9 | | = | 7.20 | sqm | | | | |
| | | | | | | | | 18.00 | sqm | 63.6 | 1144.80 | | |
| | | | | | | | | | | | 358808.06 | | |
| 29 | ADD 3% as contingency | | | | | | | | | | 10763.94 | | |
| | | | | | | | | | | | 369572.00 | | |
| | Or say | | | | | | | | | | 370000.00 | | |
| | <u> </u> (ті | hree La | l akhs Se | ventyTh | nousand) (| only. | | | | 1 | <u> </u> | | |

SOUTH BENGAL RING WELL

| SI No. | Description of item of works | | Total Cost | |
|----------|---|----------------|--------------|--------------|
| | | Vol/Unit | Rate | Amount (Rs.) |
| Cost of | earth digging including mixed, morrum soil and any other stone including spreading spoils within | a lead of 75 m | tr including | |
| bailling | out of water up to 1mtr depth if required and back filling with medium sand including cost of san | d as follows: | | |
| 1 | a)Up to 3 meter below G.L =3Mtr.@Rs.680.00/m | 3 | 680 | 2040 |
| 2 | b)3 Meter to 6 Meter =3 Mtr. @Rs.729.00/m | 3 | 729 | 2187 |
| 3 | c)6Meter to 9 Meter =3 Mtr @Rs.797.00/m | 3 | 797 | 2391 |
| 4 | d)9 Meter to 12 Meter =3 Mtr.@ Rs.866.00/m | 3 | 866 | 2598 |
| 5 | e) 12 Meter to 15 Meter =3 Mtr.@Rs.897.00/m | 3 | 897 | 2691 |
| 6 | f)15 Meter to 18 Meter =3 Mtr.@Rs.975.00/m | 3 | 975 | 2925 |
| 7 | Cost of supply of precast R.C.C Well ring made with cement concrete (4:2:1) with stone chips and 0.8% reinforcement fitted fixed in position true to plumb in the well including jointing with cement Mortar 2:1 complete as per direction: | 18 | 2205 | 39690 |
| 8 | Cost of supply of Iron Angle and making hole at the centre including fitting fixing in position properly complete. 10 Kg @ Rs.45.50.Kg. | 10 | 45.5 | 455 |
| 9 | Supplying and fitting in position 15 cm dia Pullcy Ino @ Rs.235.00 E | 1 | 235 | 235 |
| | Construction of Platform:- | | | |
| | Consolidation work over 14.766m2 | | | |
| | a) Sand packing over 14.766m2×0.15 Mtr =2.215 m3@ 214.71/m3 | 2.215 | 214.71 | 475.58 |
| | b) Boulder soling over 14.766m2×0.30 mtr =4.430 m3 @750.00/m3 | 4.43 | 750 | 3322.5 |
| | c)Single brick flat soling over 14.766m2 @114.00/m2 | 14.766 | 114 | 1683.32 |
| | d)C.C Work (4:2:1) with Chandil chips over 14.766m2×0.10=1.4766 m3 @2707.00/m3 | 1.4766 | 3654.45 | 5396.16 |
| 10 | e)Brick work of parapet wall in the platform 2.331 m3 @ 2070.00/m3 | 2.331 | 2898 | 6755.24 |
| 10 | f) Pillar 0.25×0.25× 1Metre × 2 Nos = 0.125m3 @2070.00/m3 | 0.125 | 2898 | 362.25 |
| | Cost of cement plastering 20 mm thick (6:1) with cement mortar Platform = 14.766m2,Pillar=2.000m2 Parapet=8.925m2, Total=25.691 m2 @62.00/m2 | 25.691 | 83.7 | 2150.34 |
| | Neat cement punning over (15 mm thick) 25.691 m2@ 16.00/m2 | 25.691 | 17.6 | 452.16 |
| | Colour washing with "ELLA" with a coat of white wash priming including cleaning and smoothening surface thoroughly (two coats) over 25.691 m2 @ 4.80/m2 | 25.691 | 4.8 | 123.32 |
| | Cleaning washing and removing rubbish and silt from the site | 5 | 88.27 | 441.35 |
| | | | | 76374.22 |
| | Contingency | | | 633.78 |
| | Total | | | 77008 |

South Bengal - Estimate of Submersible Pump

| SI. No. | PARTICULARS | AMOUNT (Rs.) |
|------------|---|-----------------|
| 1 | Supply fitting fixing P.V.C pipe of approved make & brand medium duty confirming threaded of match with GI accessories etc. Complete 80 mm. dia P.V.C pipe 44 mtr X 261/- | 11,484.00 |
| 2 | Supply fitting fixing P.V.C of approved make & brand No. Separate payment will be made of accessories 30 mtr. X 151/- per mtr | 4530.00 |
| 3 | Boring deep earth with boring machine of any type of stone soil hard mix soil & with parallel boring hole & something surfaced etc. as per direction of Enggincharge. 40mtr X 253/- per mtr | 10,120.00 |
| 4 | 3" X 2" Socket 1nos X 115/- each | 115.00 |
| 5 | 2" Socket filter 2nos (10'-0' each) X 1040/- each | 2,080.00 |
| 6 | 2" X 1/4' Reducing socket 1nos X 95/- each | 95.00 |
| 7 | 2" X plug cutter 1 nos x 82/- each | 82.00 |
| 8 | 6" X 2" Nipple 1nos X 78/- each | 78.00 |
| 9 | 3" Clamp 1nos X 39/- each | 39.00 |
| 10 | 3" Wall Guard 1nos X 175/- each | 175.00 |
| 11 | 3" Adopter 1nos X 105/- each | 105.00 |
| 12 | 2" X 1'/4" Elbow 1nos X 45/- each | 45.00 |
| 13 | 2" Socket 3nos X 3nos X 43/- each | 129.00 |
| 14 | 5/8" Nut bolt 4nos X 9/- each | 36.00 |
| 15 | Cable wire (approved brand) 50mtr X 62/- per mtr | 3,100.00 |
| 16 | Cable Rod iron 36mtr X 16/- per mtr | 576.00 |
| 17 | Solvent cement 1.5 kg X 340/- per kg | 510.00 |
| 18 | 1 HP Pump Sagar or equivalent 14200/- (garneted 1 year) | 14,200.00 |
| 19 | Sintex tank 500ltr X 7.50/- per ltr. | 3,750.00 |
| 20 | 1" P.V.C (approved brand) ISI 9mtr X 122/- per mtr | 1,098.00 |
| 21 | 3/4" P.V.C (approved brand ISI 25mtr X 109/- per mtr | 2,725.00 |
| 22 | 1'/4 X 1" Reduser GI 1nos X 40/- each | 40.00 |
| 23 | GI Bend 12nos X 22/- each | 264.00 |
| 24 | 1" X 3/4" Tee GI 2nos x 40/- each | 80.00 |
| 25 | 1" GI elbow 4nos X 50/- each | 200.00 |
| 26 | 3/4" Union 2nos X 45/- each | 90.00 |
| 27 | 1" Union 1nos X 55/- each | 55.00 |
| 28 | 1'/4" X 1/2" 4nos X 45/- each | 180.00 |
| 29 | 3/4" gate valve 1nos X 160/- per pvc | 160.00 |
| 30 | 1/2" Bid cock 4nos X 70/- each per pvc | 280.00 |
| 31 | 1/2 GI nipple 4nos X 32/- each | 128.00 |
| 32 | 1" Socket 4nos X 24/- each | 96.00 |
| 33 | 3/4" Socket 4nos X 21/- each | 84.00 |
| 34 | Iron clamp 20nos X 4.50/- each | 90.00 |
| 35 | Electrical warring with underground line with all accessories of all materials wire/pipe/switch board/plug/mcv for submersible motor connection | 3200.00 |
| 36 | Pipe line mistri from water tank to delivery line at quarter | 900.00 |
| 37 | 2nos 0.25 X 0.25 X 1.2 mtr Brick pillar | 880.00 |
| 38 | 1 nos concrete slab (4:2:1) with reinforcement for water tank base fitting & bricks works around the wayer tank complete 1.20 X 1.20 X 0.75 | 1201.00 |
| | TOTAL | 63,000.00 |

811

PLOT WISE(UNIT)-20 Mt*20Mt

| Item No | Particulars of Work | Unit | Rate | Total for 614 Nos. of Plot |
|------------|--|---------|--------|-------------------------------|
| | Cost of doing the following works in connection with study on Sal coppice regeneration/ growth study (Maintenance of Old Plot-60 Nos. during the year 2014-15 under WP(S)-Divn. II | | | |
| 1 | Cleaning the boundary line mt wide bu cutting jangle etc.,chilchiling and removing the same over 80mt | 1 M.D. | 183.00 | 183.00 |
| 2 | Painting trees at boundary with approved quality paint at BH 5 cm wide etc. complete over 80Rmt. | 1 M.D. | 183.00 | 183.00 |
| 3 | marking/ numbering each stump / tree with black/white paint including cleaning jungles, blazing etc. complete over 400 m2 | 4.5 MD | 183.00 | 823.50 |
| 4 | Assisting in taking measurement of different parameters, recording tabulation as format over 1 plot. | 1 MD | 183.00 | 183.00 |
| 5 | Digging boundary trench (20 mt*20 mt) of size (0.30 mt wide X 0.30 mt Depth) X 80 Rmt. | 3 MD | 183.00 | 549.00 |
| 6 | Transportation cost of labour equipments etc from Camp to field per plot | 60 Km | 7.50 | 450.00 |
| 7 | Collection of CFC map from different ranges and Xeroxing the same & supply of paint etc. | | 128.50 | 128.50 |
| | | Total:- | | 2,500.00 |

812

GROWING STOCK SURVEY

SPECIFICATION: 20MT * 20 MT.(PER UNIT)

| SL No | Particulars | Quantity | Rate | Amount (Rs.) |
|-------|---|-----------|--------|--------------|
| | Cost of doing the following wworks in connection with the study on sal coppice | | | |
| | regeneration / growth study(new Area-2014-15) in felling coupe under Bankura | | | |
| | (North), Bankura(South) & panchet Division. Total No. of plots= 40 Nos.@ 3600/- =Rs. 1,44,000.00 | | | |
| | | | | |
| 1 | Laying out plots by clearing jungles, cutting bushes, climbers etc. over 400 M2 | 1MD | 183.00 | 183.00 |
| 2 | Cleaning the boundary line 3 mt wide by cutting jungle, bushes over 20 mt * 4 side | 2 MD | 183.00 | 366.00 |
| | = 80 Rmt & removing the same. | 2 IVID | 183.00 | 300.00 |
| 3 | Digging boundary trenches of size (0.30 mt * 0.30 mt) * 80Rmt per plot-including, | 6 MD | 183.00 | 1,098.00 |
| | levelling etc. complete 6 Mandays per plot | O IVID | 105.00 | 1,030.00 |
| 4 | Painting Trees at plot boundary line with paint at BH around the trees etc. | 80 Rmt | 4.00 | 320.00 |
| | compleate over 80 Rmt | 00 11111 | 4.00 | 320.00 |
| 5 | Marking or numbering each stamp & tree with black paint including cleaning | 3 MD | 183.00 | 549.00 |
| | jungles etc. compete over 400 M2 | 3 1416 | 105.00 | 343.00 |
| 6 | Assisting/helping the staff for taking misc. measurements of different parameters | 2 MD | 183.00 | 366.00 |
| | recording & tabulating as per format over 1 plot | Z IVID | 105.00 | 300.00 |
| 7 | Transpoatation cost of staff, labourers, field equipments etc. from camp site to | 60 KM. | 8.00 | 480.00 |
| | field site over 60 km. | OO KIVI. | 0.00 | 400.00 |
| 8 | Collection of CFC Mouza Map from different Forest Ranges & xeroxing the same | Per Unit | 50.00 | 50.00 |
| 9 | Supplying of different colour paints, brash etc. | | 100.00 | 100.00 |
| 10 | Supplying drinking water, arranging field equipments for ready to field works as | Per Unit | 88.00 | 88.00 |
| 10 | and when required | rei Ullit | 88.00 | 88.00 |
| | Total:- | | | 3,600.00 |

ESTIMATE FOR ELEPHNAT PROOF TRENCH

| Item No | Particulars of Work | Units | Rate Rs. | Amount (Rs.) |
|------------|--|----------|----------|--------------|
| | Cost of doing the following works in connection with cutting elephant proof trench size 1.80mt x 1.20mtx2.15mt volume per one running meter =3.2255 m3 | | | |
| 1 | Cost of cleaning of suface before earth cutting and demarcation per 100 mt | 1.500 MD | 224.580 | 336.87 |
| 2 | Cutting of earth as per requirement for the EPT over 100 rmt =322.5m3 | 322.500 | 145.000 | 46762.50 |
| 3 | Earth compacting in the inner margin off the EPT over 100 mt | 11.000 | 216.000 | 2376.00 |
| 4 | Contingencies | | | 37.50 |
| | Total expenses per 100 rmt | · | | 49513 |

814

ESTIMATE FOR ELEPHANT PROOF TRENCH WITH BOULDERS

| Item no. | Particulars of Work | Units | Rate | Amount (Rs.) |
|-------------|---|--------|--------|--------------|
| | Cost of doing the following works in connection with cutting elephant proof trench size 1.80mt+1.20mtX2.15mt volume per one running meter =3.225 m ³ | | | |
| 1 | Cost of cleaning of surface before earth cutting and demarcation per 100 mt | MD 1.5 | 224.58 | 336.87 |
| 2 | Cutting of earth as per requirement for the EPT over 100 rmt =322.5m ³ | 322.5 | 145 | 46762.5 |
| 3 | Earth compacting in the inner margin off the EPT over 100 mt | 11 | 224.58 | 2470.38 |
| 4 | Contingencies | | | 37.5 |
| | Total Part 1 | | | 49607.25 |
| 5 | Boulder layering at one side outer edge of trench 100X2.90X0.20 =58 m ³ | | | 0 |
| а | Boulder collection and carriage upto working site over 58 m ³ | 58 | 969 | 56202 |
| | Total Part 1 and part 2 | | | 105809 |

815 POWER FENCING

Average Post Span :10-15 . Number of Line :4 line (3- Phase & 1- Earth)

| SI | Description | Unit | Rate 2 Rs. | Amount (Rs.) |
|----|---|--------|------------|--------------|
| 1 | BASE UNIT FIXED COST:- (Up to kilometer in a stress) Energizer AEI (5Joules), 12 volt 88 /100 amps Exide maintenance free Battery, Solar PV /Module 54/60 watts 12 volt , worning Sign ,Lead out Cable, strain Insulator, Joint Clamp, Super Earth Kit, Neon Tester 5 light indicator solar Battery Charge controller, Tool Kit. | One | 98500 | 98500 |
| 2 | VERIABLE COST :- Rope gate kit Super Earth Kit, DI Cable, High Tensile Wire 12 SWG (m), Strain Insulator of polypropylene, Joint Clamp, Tension Spring Galvaanized, Wire Tightner All Aluminum Die Cast, Post Protection Clamp, corner/thru/pull post 50mm pipe with concrete grouting, support post 25mm pipe & intermediate post 25x25x3 T/L section. | Meter | 128 | 128000 |
| 3 | Installation, Testing & Commissiong. | per km | 9500/km | 9500 |
| 4 | Transportation charge 5 km | 1 Job | 15000=00 | 15000 |
| | Total Amount | | | 251000 |

ESTIMATE FOR CSB (JHAW) CREATION FOR SOUTH BENGAL Labour Rate = Rs. 224.58 Unit = 1 hec.

| 35001 | | | Total: | |
|-----------|----------------------|----------|---|---------|
| | | | ii) Binding seedlings with sticks | |
| 1060.20 | | L.S. | i)Seedlings carriage : 1920 on contract & | |
| | | | 9 Misc. Works:- | 9 |
| 2694.96 | 224.58 | 12 | 8 2 nd time cost of application of organic /inorganic fertilizer @ 12 MD per Ha. | ∞ |
| 4042.44 | 224.58 | 18 | 7 Cost of application organic manure as per doses prescriber per pit @ 18 MD per ha. | 7 |
| 4042.44 | 224.58 | 18 | 6 2 nd time weeding, cleaning, mulching the planted seedlings 14 MD per ha. | 6 |
| 4042.44 | 224.58 | 18 | $5 \mid 1^{st}$ time weeding, cleaning & mulching with fertilizer 18 MD per ha. | ъ |
| 2694.96 | 224.58 | 12 | 4 Infilling planting in the vacancy area over 1 ha.@ 4 MD per ha. | 4 |
| 5614.50 | 224.58 | 25 | 3 Cost of planting of potted seedlings for 1 ha. Pltn. @ 18 MD per ha. | ω |
| 4267.02 | 224.58 | 19 | 2 Cost of making conical shape earthen mounts of dia 1.0 mt. as base over 1600 nos. | 2 |
| | | | Cost of digging planting pits 448 nos. of size 0.60 mt. x 0.45 mt. x 0.45 mt. | |
| 4042.44 | 224.58 | 18 | 1 Cost of digging planning pits 1600 nos. @ 25 MD | 1 |
| | | | Field Works:- | В. |
| 800.00 | 800.00 | L.S. | 3 Cost of weeding, cleaning & watering of potted seedlings for 3 months | 3 |
| 900.00 | 900.00 | L.S. | 2 Cost of sorting, shifting of seedlings & application of Oil cake | 2 |
| | | | cake etc. | |
| 800.00 | 800.00 | L.S. | 1 Cost of making shade with splited Bamboo, rope thatch of size (4.0 mt. \times 1.50 mt.) and supply of Oil | 1 |
| | | | Nursery Works:- | A. |
| | | | Cost of doing following works in connection with creation of CSB Jhaw pltn. | |
| Rs. | (Rs) | | | |
| Amount in | Rate of MD Amount in | Unit/ MD | Particulars of Works | SI. No. |

| 817 | | | | | | | | |
|--------------|--|--------|-----------|---------------------|----------|---------------|-----------------|-------------|
| Fencing work | work Unit= 1 hec. | | | | | | | |
| SI No | Details of works. | Total/ | Rate (Rs) | Rate (Rs) T/Cost of | | Material comp | mp. | Total. (Rs) |
| | | M.D. | | M.D.(Rs) | Inputs./ | Rate (Rs) | Total Materials | |
| | | | | | ors. | | (Rs) | |
| 10 | Supply of fencing post of girth 31 cm t- 40 cm of length 1.80 mt. over 66 nos. @92/- | | | | 66 Nos. | 92 | 5520 | 5520.00 |
| 11 | Supply of barbed wire 2 ply 2 g. / 2 points for erection of barbed wire fencing 4 strands | | | | 60 kg. | 69 | 3864 | 3864.00 |
| 12 | Making holes for embedding the fencing post for erection of barbed wire fencing over 35 nos. | ω | 224.58 | 673.74 | | | | 673.74 |
| 13 | Cost of straining barbed wire by fitting, fixing staples | 2 | 224.58 | 449.16 | | | | 449.16 |
| 14 | Fencing Materials i) Staple | | | | LS | LS | 181.70 | 253.15 |
| | ii) Coalter | | | | 0.5 tin | 880 | 440.00 | 440.00 |
| | Total : | | | | | | | 11200.05 |
| | Grand Total: | | Rs. | 46201 | | | | |

BOUNDARY RCC PILLARS of size 1.20m*0.25m SOUTH BENGAL

| SI No. | Particulars of work | No | h | ı | b | Vol. | Unit | Rate | Amount (Rs.) | Remarks pg. ref. as per PWD Schedule- 2014 |
|--------|--|--------------------|------------------------------|------------------------------|--|------------------------------|----------------------|---------|-------------------|---|
| 1 | Ordinary cement concrete works(1:1:5:3) graded stone chips (20 mm Down) etcpakur variety | 1 | | 0.25 | 0.25 | 0.06 | М3 | | | |
| | variety | 1 | 0.45 | 0.15 | 0.25 | 0.01 | M3 | | | |
| | | | | | Total: | 0.07 | | 6755.28 | 472.86 | P/14- 7/(1)&25/11-3 |
| 2 | Hire and labour charges of | 1 | | 1.00 | | 1.05 | | | | |
| | shuttering etc. | 1 | 0.85 | 0.25 | Total: | 0.21 | | 200 | 400.4.4 | D/26/42@ |
| | | | | | rotai: | 1.26 | IVI2 | 389 | 490.14 | P/26/12© |
| 3 | M.S Reinforcement including bending, binding etc 8mm.Dia 4Nos * 1.05 Rmt.=4.20Rmt 4Nos. * 0.40 Rmt.=1.60Rmt 8Nos. * 0.50 Rmt.=4.00Rmt Total: 9.80Rm1 | 0.39 Kg/ Mt. | 9.80 | | | 3.82 3.82 | Kg Kg | | | |
| | (+) Add 10% for cutting, bending,lapping etc: | | | | Total | 0.38 | Kg | | | |
| | | Or | Say | | Over: | 4.2 | Kg | 68.35 | 287.07 | P/27/15(1) |
| 4 | 15.0 mm thick Plastering with 6:1 cement mortar etc: | 1 3 1 3 | 1.05 0.15 0.20 0.45 | 1.00 0.25 0.25 0.25 | | 1.05 0.11 0.06 0.33 | M2 M2 M2 M2 | | | |
| | | | | | Total | 1.52 | M2 | 144.00 | 218.88 | P/151/2(I)(c) |
| 5 | Engeraving "FD" letter in both opposite facing side etc. | | | | 2 Nos. | 5.54 | each | | 11.08 | |
| | | | | | | | | Total:- | 1400.03 | |
| | | | | | | | | | 1480.03 or say | |
| | l | <u>I</u> | 1 | | <u> </u> | | | Total:- | 1,480.00 | ı |

(Rupees One thousand four hundred eighty only)

| 819 | В | OUND | ARY PILI | LARS (Hi | I) | | | | | | |
|--------|--|----------|--------------|-----------|---------|------------|----|----------------------|-----------------|---------|--------------|
| CLN | Description of them | C: d = | Nos | Longth | Droadth | Unight | 14 |)anthitu | l Init | Data | Amount (Bc.) |
| SI No. | Description of Item | Side | Nos. | Length | Breadth | Height | | Quanthity | Unit | Rate | Amount (Rs. |
| | (Page-01, Item No2) | | - | | | | | | | | |
| 1 | Earth work in excavation of foundation trenches or | | | | | | | | | | |
| | drains. in all sorts of soil (including mixed soil but | | | | | | | | | | |
| | excluding laterite or sandstone) including removing. | | | | | | | | | | |
| | spreading or stacking the spils within a lead of 75 m. | | | | | | | | | | |
| | as directed. The item includes necessary trimming | | | | | | | | | | |
| | the sides of trenches. leaving, dressing and ramming | | | | | | | | | | |
| | the bottom. bailing out water as required complete. | | | | | | | | | | |
| | (a) Depth of excavation not exceeding 1500mm. | | | | | | | | | | |
| | | 1 | 1 | 0.75 | 0.75 | 0.3 | = | 0.17 | cum | | |
| 2 | (P-227 i-61) | | | | | | = | 0.17 | cum | 120.47 | 20.33 |
| | , | | 1 | | | | | | | | |
| | Labour for laying 150 mm to 200 mm boulder soling | | | | | | | | | | |
| | including rough dressing hand packing and ramming | | | | | | | | | | |
| | down small pieces in the interstics including rolling | | | | | | | | | | |
| | and preparting the bed to proper level and filling up | | | | | | | | | | |
| | all joints with sandy clay or earth including supply of | | | | | | | | | | |
| | stones. | Ī | | | | | | | | | |
| | Post | 1 | 1 | 0.75 | 0.75 | | = | 0.56 | Sqm | | |
| | | | | | | | | 0.56 | | 51 | 28.69 |
| | Cost of boulder | 1 | 0.75 | 0.75 | 0.15 | | = | 0.08 | Cum | 1272 | 107.33 |
| 6 | lt-5/P-11 | | | | | | | | | | |
| | Ordinary Cement concrete (mix 1:2:4) with | | | | | | | | | | |
| | 1 | | | | | | | | | | |
| | graded stone chips (20 mm nominal size) | | | | | | | | | | |
| | excluding shuttering and reinforcement,if | | | | | | | | | | |
| | any, in ground floor as per relevant IS | | | | | | | | | | |
| | | | 1 | | | | | | | | |
| | (b) River bazree | | | | | | | | | | |
| | A) Gound floor | | | | | | | | | | |
| | Main pillar | | 1 | 0.45 | 0.45 | 0.8 | | 0.162 | | | |
| | ' | | | | | | | 0.162 | m3 | 7116 | 1152.79 |
| | including distribution bars, stirrups etc. init cutting to requisite lengthetc. a) for works in foundation, basement and | ial stra | ightenir | ng and re | moval o | f loos rus | t, | | | | |
| | upto roof of ground floor consedaring | | | | | | | | | | |
| | ' | | | | | | | | | | |
| | (0.162m3x1.5%x78.50)/10=0.0191 | | | | | | | | | | |
| | | | | | | | | 0.0191 | MT | 83414.4 | 1591.17 |
| | A) ground :- | | | | | | | | | | |
| | P-151, item no - 02 | | | | | | | | | | |
| 4 | Plaster (to wall, floor, ceiling etc) with sand and cement morter including rounding off or chamferingetc | | | | | | | | | | |
| | - | | | | | | | | | | |
| | IPlastering (4.1) | | | | | | | | | | |
| | Plastering (4:1) | 1 | 4 | 0.45 | 0.80 | = | | 1 44 | sam | | |
| | Plastering (4:1) | 1 | 4 | 0.45 | 0.80 | = | | | sqm | 1/16 | 210.24 |
| | Plastering (4:1) | 1 | 4 | 0.45 | 0.80 | = | | | sqm sqm | 146 | 210.24 |
| | | 1 | 4 | 0.45 | 0.80 | = | | | _ | 146 | 210.24 |
| 6 | Plastering (4:1) Emboss of pillar SL no. and iron plate | 1 | 4 | 0.45 | 0.80 | = | | | _ | 146 | 210.24 |
| 6 | | | 4 | 0.45 | 0.80 | | | 1.44 | sqm | 146 | 210.24 |
| 6 | | 1 | 4 | 0.45 | 0.80 | = | | 1.44 | sqm | | 210.24 |
| 6 | Emboss of pillar SL no. and iron plate | | 4 | 0.45 | 0.80 | | | 1.44 | sqm | 146 | 210.24 |
| | Emboss of pillar SL no. and iron plate P-162 I- 7 | | 4 | 0.45 | 0.80 | | | 1.44 | sqm | | |
| 7 | Emboss of pillar SL no. and iron plate P-162 I- 7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of | | 4 | 0.45 | 0.80 | | | 1.44 | sqm | | |
| | Emboss of pillar SL no. and iron plate P-162 I- 7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening | | 4 | 0.45 | 0.80 | | | 1.44 | sqm | | |
| | P-162 I- 7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. | | 4 | 0.45 | 0.80 | | | 1.44 | sqm | | |
| | Emboss of pillar SL no. and iron plate P-162 I- 7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening | 1 | | | | = | | 1.00 | no no | | |
| | P-162 I- 7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. | | 4 | | 0.80 | = | | 1.44 1.00 1.00 | no no sqm | 65 | 65.00 |
| | P-162 I- 7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. | 1 | | | | = | | 1.44 1.00 1.00 | no no | | 65.00 |
| | P-162 I- 7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. | 1 | | | | = | | 1.44 1.00 1.00 | no no sqm | 65 | 65.00 |
| | Emboss of pillar SL no. and iron plate P-162 I-7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. a) on timber or plaster surface | 1 | | | | = | | 1.44 1.00 1.00 | no no sqm | 65 | 65.00 |
| 7 | Emboss of pillar SL no. and iron plate P-162 I-7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. a) on timber or plaster surface It P-163, Item - 8 (B) Painting with superior quality aluminium | 1 | | | | = | | 1.44 1.00 1.00 | no no sqm | 65 | 65.00 |
| 7 | Emboss of pillar SL no. and iron plate P-162 I- 7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. a) on timber or plaster surface It P-163, Item - 8 (B) Painting with superior quality aluminium paint of approved make and brand including | 1 | | | | = | | 1.44 1.00 1.00 | no no sqm | 65 | 65.00 |
| 7 | Emboss of pillar SL no. and iron plate P-162 I- 7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. a) on timber or plaster surface It P-163, Item - 8 (B) Painting with superior quality aluminium paint of approved make and brand including smoothening surface by sand papering etc. | 1 | | | | = | | 1.44 1.00 1.00 | no no sqm | 65 | 65.00 |
| 7 | Emboss of pillar SL no. and iron plate P-162 I- 7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. a) on timber or plaster surface It P-163, Item - 8 (B) Painting with superior quality aluminium paint of approved make and brand including | 1 | | | | = | | 1.44 1.00 1.00 | no no sqm | 65 | |
| 7 | Emboss of pillar SL no. and iron plate P-162 I- 7 (b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. a) on timber or plaster surface It P-163, Item - 8 (B) Painting with superior quality aluminium paint of approved make and brand including smoothening surface by sand papering etc. | 1 | | | | = | | 1.44 1.00 1.00 | no no sqm | 65 | 65.00 |

| | a) on timber or plastered surface with super gloss (higloss) | | | | | | | | | | |
|---|--|---------|---------|-----------|-----------|--------------|-----|------|-----|----|---------|
| | (b) Two coats | | | | | | | | | | |
| | | 1 | 4 | 0.45 | 0.60 | = | | 1.08 | sqm | | |
| | | | | | | | | 1.08 | sqm | 62 | 66.96 |
| | | | | | | | | | | | |
| | | | | | | | | | | | 3277.07 |
| 9 | ADD 3% as contingency | | | | | | | | | | 58.10 |
| | Cost for 1 pillar | | | | | | | | | | 3335.17 |
| | or say | | | | • | | | | , | | 3335.00 |
| | (Rupees | Three T | housand | Three Hun | dred Thir | ty Five) or | ıly | | | | |

| Sl. No | Particulars of Work | Rate | Amount (Rs) Per Ha. |
|---------------|---|-------------------|------------------------|
| 1 | Hiring of Vehicle for Survey Monitoring works @ Rs. 12 per Km (including fuel etc.) by the concerned Range Officer & staff. | L.S | 2160.00 |
| 2 | Cost of carrying survey materials, files, forms etc. manually up to non- motorable plots and engaging labors for helping in checking area of plantation created and counting for enumeration (3 plots X 2500 sq. m) including demarcation of sample plots by making earthen mound in four corner with pegging painted with color for easy identification. (3 plots X 4 nos. pegs) | 8 md @ Rs.221 | 1768.00 |
| 3 | Laying out sample plots (size 50m X50m) and taking measurement i.e collar girth, BHG etc. of seedlings and enumeration of old natural / planted trees within the sample plot. (3 plots X 2500 sq.m) | 6 md @ Rs. 221 | 1326.00 |
| 4 | Purchase of tracing paper, printing of Data Sheet and final report, computer paper, printer, cartridge etc. and other overhead charges required for works related with Monitoring & Evaluation. | L.S | 200.00 |
| 5 | Engaging persons for computation &tabulation of Field Data in the new Monitoring evaluation enumeration forms at the Division Office | L.S | 2000.00 |
| 6 | Hiring of vehicle for Inspection of survey monitoring works in the field by DFO &higher authorities. | L.S | 2500.00 |
| 7 | Contingency | L.S | 46.00 |
| | Total cost for 20 Ha. | | 10000.00 |
| | Total cost for 1 Ha. | | 500.00 |
| - | (Rupees Five Hundred Only) | | |

902 Survey Monitoring of $\mathbf{1}^{\text{st}}$ year Plantation (Sampling Intensity 7.5%) Per Plot of 20 ha State Plan

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| Sl. No | Particulars of Work | Rate | Amount (Rs) Per Ha. |
|--------|---|-------------------|------------------------|
| 1 | Hiring of Vehicle for Survey Monitoring works @ Rs. 12 per Km (including fuel etc.) by the concerned Range Officer & staff. | L.S | 2160.00 |
| 2 | Cost of carrying survey materials, files, forms etc. manually up to non- motorable plots and engaging labors for helping in checking area of plantation created and counting for enumeration (3 plots X 2500 sq. m) including demarcation of sample plots by making earthen mound in four corner with pegging painted with color for easy identification. (3 plots X 4 nos. pegs) | 8 md @ Rs.221 | 1768.00 |
| 3 | Laying out sample plots (size 50m X50m) and taking measurement i.e collar girth, BHG etc. of seedlings and enumeration of old natural / planted trees within the sample plot. (3 plots X 2500 sq.m) | 6 md @ Rs. 221 | 1326.00 |
| 4 | Purchase of tracing paper, printing of Data Sheet and final report, computer paper, printer, cartridge etc. and other overhead charges required for works related with Monitoring & Evaluation. | L.S | 200.00 |
| 5 | Engaging persons for computation &tabulation of Field Data in the new Monitoring evaluation enumeration forms at the Division Office and field visit. | L.S | 1500.00 |
| 6 | Contingency | L.S | 46.00 |
| | Total cost for 20 Ha. | | 7000.00 |
| | Total cost for 1 Ha. | | 350.00 |
| | (Rupees Three Hundred Fifty Only) | _ | |

903 Survey Monitoring of 3^{rd} & 5^{th} year Plantation (S. Intensity 5%) Per Plot of 30 ha State Plan

| SI. No | Particulars of Work | Rate | Amount (Rs) Per Ha. |
|--------|---|-------------------|------------------------|
| 1 | Hiring of Vehicle for Survey Monitoring works @ Rs. 12 per Km (including fuel etc.) | L.S | 2160.00 |
| 2 | Cost of carrying survey materials, files, forms etc. manually up to non- motorable plots and engaging labors for helping in checking area of plantation created and counting for enumeration (2 plots X 2500 sq. m) including demarcation of sample plots by making earthen mound in four corner with pegging painted with color for easy identification. | 8 md @ Rs.221 | 1768.00 |
| 3 | Laying out sample plots (size 50m X50m) and taking measurement i.e collar girth, BHG etc. of seedlings and enumeration of old natural / planted trees within the sample plot. (2 plots X 2500sq.m) | 6 md @ Rs. 221 | 1326.00 |
| 4 | Purchase of tracing paper, printing of Data Sheet and final report, computer paper, printer, cartridge etc. and other overhead charges required for works related with Monitoring & Evaluation. | L.S | 200.00 |
| 5 | Engaging persons for computation & tabulation of Field Data in the new Monitoring evaluation enumeration forms at the Division Office and field visit. | L.S | 1500.00 |
| 6 | Engaging labors for plantation sample plot site cleaning and clearing of jungles for conducting survey monitoring works. | L.S | 500.00 |
| 7 | Contingency | L.S | 46.00 |
| | Total cost for 30 Ha. | | 7500.00 |
| | Total cost for 1 Ha. | | 250.00 |
| | (Rupees Two Hundred Fifty Only) | | |

904 Survey Monitoring of Older Plantation (10, 15, 20 years old) (Sampling Intensity 5%) (In hills for all plantations irrespective of distances)(Plot size 50m X 50m) Per plot of 30 Ha

STATE PLAN

| Sl. No | Particulars of Work | Rate | Amount (Rs) Per Ha. |
|--------|---|-------------------|------------------------|
| 1 | Hiring of Vehicle for Survey Monitoring works @ Rs. 12 per Km (including fuel etc.) | L.S | 4600.00 |
| 2 | Cost of carrying survey materials, files, forms etc. manually up to non- motorable plots and engaging labors for helping in checking area of plantation created and counting for enumeration (2 plots X 2500 sq. m) including demarcation of sample plots by making earthen mound in four corner with pegging painted with color for easy identification. | 8 md @ Rs.221 | 1768.00 |
| 3 | Laying out sample plots (size 50m X50m) and taking measurement i.e collar girth, BHG, height of the trees etc. of seedlings and enumeration of old natural / planted trees within the sample plot. (2 plots X 2500sq.m) | 6 md @ Rs. 221 | 1326.00 |
| 4 | Purchase of tracing paper, printing of Data Sheet and final report, computer paper, printer, cartridge etc. and other overhead charges required for works related with Monitoring & Evaluation. | L.S | 200.00 |
| 5 | Engaging persons for computation & tabulation of Field Data in the new Monitoring evaluation enumeration forms at the Division Office and field visit. | L.S | 1500.00 |
| 6 | Engaging labors for plantation sample plot site cleaning and clearing of jungles for conducting survey monitoring works. | L.S | 300.00 |
| 7 | Contingency | L.S | 56.00 |
| | Total cost for 30 Ha. | | 9750.00 |
| | Total cost for 1 Ha. | | 325.00 |
| | (Rupees Three Hundred Twenty Five Only) | | |

905 Survey Monitoring of Older Plantation (10,15,20 years old) (Sampling Intensity 5%) (In Plains and where plantations are far off)(Plot size 50m X50m) Per plot of 30 Ha

| SI. No | Particulars of Work | Rate | Amount (Rs) Per Ha. |
|--------|---|-------------------|------------------------|
| 1 | Hiring of Vehicle for Survey Monitoring works @ Rs. 12 per Km (including fuel etc.) | L.S | 3800.00 |
| 2 | Cost of carrying survey materials, files, forms etc. manually up to non- motorable plots and engaging labors for helping in checking area of plantation created and counting for enumeration (2 plots X 2500 sq. m) including demarcation of sample plots by making earthen mound in four corner with pegging painted with color for easy identification. | 8 md @ Rs.221 | 1768.00 |
| 3 | Laying out sample plots (size 50m X50m) and taking measurement i.e collar girth, BHG, height of the trees etc. of seedlings and enumeration of old natural / planted trees within the sample plot. (2 plots X 2500sq.m) | 6 md @ Rs. 221 | 1326.00 |
| 4 | Purchase of tracing paper, printing of Data Sheet and final report, computer paper, printer, cartridge etc. and other overhead charges required for works related with Monitoring & Evaluation. | L.S | 200.00 |
| 5 | Engaging persons for computation & tabulation of Field Data in the new Monitoring evaluation enumeration forms at the Division Office and field visit. | L.S | 1500.00 |
| 6 | Engaging labors for plantation sample plot site cleaning and clearing of jungles for conducting survey monitoring works. | L.S | 300.00 |
| 7 | Contingency | L.S | 106.00 |
| | Total cost for 30 Ha. | | 9000.00 |
| | Total cost for 1 Ha. | | 300.00 |
| | (Rupees Three Hundred Only) | | |

906 Survey Monitoring of Older Plantation (10, 15,20 years old) (Sampling Intensity 5%) (In Plains and where plantations are nearby)(Plot size 50m X50 m) Per plot of 30 Ha

| SI. No | Particulars of Work | Rate | Amount (Rs) Per Ha. |
|--------|---|-------------------|------------------------|
| 1 | Hiring of Vehicle for Survey Monitoring works @ Rs. 12 per Km (including fuel etc.) | L.S | 3100/- |
| 2 | Cost of carrying survey materials, files, forms etc. manually up to non- motorable plots and engaging labors for helping in checking area of plantation created and counting for enumeration (2 plots X 2500 sq. m) including demarcation of sample plots by making earthen mound in four corner with pegging painted with color for easy identification. (2 plots X 4 nos. pegs) | 8 md @ Rs.221 | 1768.00 |
| 3 | Laying out sample plots (size 50m X50m) and taking measurement i.e collar girth, BHG, height of the trees etc. of seedlings and enumeration of old natural / planted trees within the sample plot. (2 plots X 2500sq.m) | 6 md @ Rs. 221 | 1326.00 |
| 4 | Purchase of tracing paper, printing of Data Sheet and final report, computer paper, printer, cartridge etc. and other overhead charges required for works related with Monitoring & Evaluation. | L.S | 200.00 |
| 5 | Engaging persons for computation & tabulation of Field Data in the new Monitoring evaluation enumeration forms at the Division Office and field visit. | L.S | 1500.00 |
| 6 | Engaging labors for plantation sample plot site cleaning and clearing of jungles for conducting survey monitoring works. | L.S | 300.00 |
| 7 | Contingency | L.S | 56.00 |
| | Total cost for 30 Ha. | | 8250.00 |
| | Total cost for 1 Ha. | | 275.00 |
| | (Rupees Two Hundred Seventy Five Only) | | |