|  |  |  |  |
| --- | --- | --- | --- |
|  | Re-excavation of Khal |  |  |
| .43/  16-100 | Erecting of bamboo profile with full bamboo posts and pegs not les than 60 mm in diameter and coir strings etc. complete as per direction of Engineer in charge. | Total length  a)Katakhali Khal =3.800 km.  b) Samarbari Khal = 3.890 ,,  c) Mahinhandra Khal= 0.90 ,,  d) Kata Khal = 0.50 ,,  e) Kurigai Gang = 7.350 ,,  f) Beri Gang = 3.56 ,,  Total = 20.000 km  Peg used @ 100.00m interval  Nos of peg =(20.000x1000)/125 x 4 = 640 .00 nos | 640.00  nos. |
| 44/  16-220 | Earth work by manual labor in all kinds of soil in construction of cross bundh/ ring bundh as per design and specification with all leads and lifts, throwing the earth in layers not exceeding 150 mm in thickness including breaking clods, rough dressing, clearing the jungle, removing stumps, dug bailing and 75 mm cambering etc. complete as per direction of Engineer in charge | Construction of ring bundh  **a)Katakhali Khal**  length =3.800 km. Ring bundh construction @ 200m interval  Nos. of ring bundh = (3.800x1000.00)/200 =19 nos  Quantity =19x(1.50+7.5)/2 x(5.00+9.50)/2x1.50 =929.812cum  **b) Samarbari Khal**  length =3.890 km. Ring bundh  construction @ 200m interval  Nos. of ring bundh  = (3.890x1000.00)/200 =20 nos  Quantity  =20x(1.50+7.500)/2 x(15.00+22.00)/2x1.50 = 2497.500cum  **c) Mahinhandra Khal**  length =0.90 km. Ring bundh  construction @ 200m interval  Nos. of ring bundh  = (0.90x1000.00)/200 =5 nos  Quantity  =5x(1.50+7.50)/2 x(15.00+22.00)/2x1.50 = 624.375cum  **d) Kata Khal**  length =0.60 km. Ring bundh  construction @ 200m interval  Nos. of ring bundh  = (0.60x1000.00)/200 =3 nos  Quantity  =3x(1.50+7.5)/2 x(11.50+17.50)/2x1.50 = 293.625cum  **e) Kurigai Gang**  length = 7.350 km. Ring bundh  construction @ 200m interval  Nos. of ring bundh  = (7.350 0x1000.00)/200 =37 nos  Quantity  =37x(1.50+7.50)/2 x(20.00+27.00)/2x1.50 = 5869.125cum  **f) BeriGang**  length = 3.56 km. Ring bundh  construction @ 200m interval  Nos. of ring bundh  = (3.56x1000.00)/200 = 18 nos  Quantity  =18x(1.50+7.50)/2 x(20.00+27.00)/2x1.50 = 2855.250cum  Total =13069.687 cum | 13069.69  cum |
| 45/  12-310 | Bailing out of water with all leads and lifts by manual labour or pump, with all arrangements for protection of ring bund and side slopes of foundation pit against erosion or washout etc. complete actual volume of work will be measured by sounding method before starting the work as per direction of Engineer in charge.  12-310-10: by manual labor | **Bailing out of water**  **a) Katakhali Khal**  length =3.800 km.  Volume  = 3.800x1000.00x(5.00+7.250)/2 x 0.750  =17456.250.000 cum  **b) Samarbari Khal**  length =3.890 km.  Volume  =3.890x1000.00x(15.00+18.000)/2 x1.00 =69185.00 ,,  **c) Mahinhandra Khal**  length =0.90 km.  Volume  = 0.90x1000.00x(15.00+17.250)/2 x0.750 =10884.375 ,,  **d) Kata Khal**  length =0.60 km.  Volume  =0.60x1000.00x(11.50+11.50)/2 x0.750 =5681.250 ,,  **e) Kurigai Gang**  length = 7.350 km.  Volume  =7.350x1000.00x(20.00+23.00)/2 x1.00=158025.00 ,,  **f) BeriGang**  length = 3.56 km.  Volume  =3.56x1000.00x(20.00+23.00)/2 x1.00 =76540.00 ,,  Total =332771.88cum | 332771.88 cum |
| 46/  16-600 | Earth work by Mechanical Excavator (long Boom) in all kinds of soil in excavation/ re-excavation of channel /canal /khal etc. including disposal of spoil soil up to 30m away from point of excavation with rough dressing and leveling etc. complete as per direction of Engineer- in- charge. | Detail calculation sheet attached  a) Katakhali Khal = 74324.94 cum  b) Samarbari Khal = 1,04,440.21 ,,  c) Mahinhandra Khal = 30196.50 ,,  d) Kata Khal = 17387.24 ,,  e) Kurigai Gang = 236589.38 ,,  f) Beri Gang = 114768.75 ,,  Total = 577707.020 cum  Macanical Excavtor ( Long boom)  75%of total quantity  =577707.020 x75%= 433280.265cum | 433280.265 cum |
| 47/  16-130 | Earth work by manual labour in all kinds of soil in excavation of channels with the initial lead of 30m and lift of 1.5 m including leveling dressing and throwing the spoils to profile with breaking clods, rough dressing, clearing jungles including cutting trees up to 200 mm girth, dug bailing etc. complete as per direction of Engineer in charge. | Manual labour  Quantity =25% of Total quantity in Item no. 46  =577707.020cum x25% =144426.755 cum | 144426.755 cum |
| 48/  16-240 | Earth work by manual labor in all kinds of soil in removing cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance, (minimum 15m apart from the bank) as per direction of Engineer in charge | Quantity = 80% of construction Ring bundh in item no. 44  =13069.687x 80%= 10455.749 cum | 10455.749 cum |
| 49/  16-190 | Extra rate for every additional lead of 15m or part thereof beyond the initial lead of 30m upto a maximum of 19 leads (3m neglected) for all kinds of  earth work. 1 no lead | Same as item no=47=144426.75 cum | 144426.785 |
| 50/  NSI | Part time employment of environmental inspector for Implementation and reporting on environmental management plan provision for first aid box and medical assistant as per specification and direction of engineer in charge. | 1.00 no LS TK=1,00,000.00 | 1,00,000.00 |

.