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| Detailed estimate for the Re-excavation of Khal 10.757 km (i. Lalpur khal km 0.410 to km 4.40 = 3.900 km, ii) Naluar Khal km 0.200 to km 0.800 = 0.600 km, iii) Maherkona Khal km 0.300 to km 3.300 = 3.00 km, iv) Nabinpur Khal km 4.000 to km 6.800= 2.800 km & v) Jalalpur khal km 0.090 to km 0.457= 0.367 km) & construction of New Regulator of 3 vent 1.50m x 1.80m at Naluar Khal km 4.77 & 4 vent 1.50m x 1.80m at Meharkona km 1.64 of Noapara Haor sub-project in C/W Haor Flood Management and Livelihood Improvement Project under Kishoreganj WD Division, BWDB, Kishoreganj during the financial year 2017-18 & 2018-19. Package No. BWDB/Kish/HFMLIP/PW-12 | | | |
| **Item No & code.** | **Description** | **Detailed measurement** | **Quantity** |
| 1/  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)Jalalpur Khal =0.367 km.  b) Lalpur Khak = 3.990 ,,  c) Moharkona Khal = 3.000 ,,  d) Nabinpur Khal = 2.800 ,,  e) Naluar Khal = 0.600 ,,  Total = 10.757 km  Peg used @ 50.00m interval  Nos of peg =(10.757/0.050)/215.14 x 4 = 860.56  = 861.00 nos | 861 nos. |
| 02/  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)** Lalpur Khal  length =3.900 km. Ring bundh construction @ 200m interval  Nos. of ring bundh = (3.900x1000.00)/200 =20 nos  Quantity  =20x(1.50+7.5)/2 x(11.00+18.00)/2x2.33 = 3**040.65cum**  **b) Naluar khal**  length =0.600 km. Ring bundh  construction @ 200m interval  Nos. of ring bundh  = (0.600x1000.00)/200 =3 nos  Quantity  =3x(1.50+7.500)/2 x(13.00+17.00)/2x1.30 = **263.25cum**  **c) Maherkona khal**  length =3.00 km. Ring bundh  construction @ 200m interval  Nos. of ring bundh  = (3.00x1000.00)/200 =15 nos  Quantity  =15x(1.50+7.50)/2 x(15.00+22.00)/2x1.50=**1873.13cum**  **d) Nabinpur Khal**  length =2.800 km. Ring bundh  construction @ 200m interval  Nos. of ring bundh  = (2.800x1000.00)/200 =14 nos  Quantity  =14x(1.50+7.5)/2 x(10.00+14.00)/2x2.00 = **1512.00cum**  **e) Jalalpur khal**  length = 0.367 km. Ring bundh  construction @ 200m interval  Nos. of ring bundh  = (0.367 0x1000.00)/200 =2 nos  Quantity  =2x(1.50+7.50)/2 x(5.75+10.25)/2x1.50 = **108.00cum**  Total =6797.03 cum | 6797.03  Cum |
| 03/  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)** Lalpur Khal  length =3.900 km.  Volume  = 3.900x1000.00x(11.00+18.00)/2x2.33  =131761.50 cum  **b) Naluar khal**  length =0.600 km km.  Volume  =0.600x1000.00x(13.00+17.00)/2x1.30 = 11700.00 ,,  **c) Maherkona khal**  length =3.00 km  Volume  = 3.00x1000.00x(15.00+22.00)/2x1.50= 83250.00 ,,  **d) Nabinpur Khal**  length =2.800 km.  Volume  =2.800 x1000.00x(10.00+14.00)/2x2.00 =67200.00 ,,  **e) Jalalpur khal**  length = 0.367 km.  Volume  =0.367 x1000.00x(5.75+10.25)/2x1.50 = 3578.25 ,,  Total =297489.75cum | 297489.75  cum |
| 04/  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) Lalpur Khal = 155824.80 cum  b) Naluar Khal = 16559.58 ,,  c) Maherkona khal = 90975.58 ,,  d) Nabinpur Khal = 104525.74 ,,  e) Jalalpur Khal = 3872.29 ,,  Total = 371757.99 cum  Macanical Excavtor ( Long boom)  75%of total quantity  =371757.99 x80%= 297406.39cum | 297406.39 cum |
| 05/  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 =20% of Total quantity in Item no. 46  =371757.99 cum x20% =74351.60 cum | 74351.60 cum |
| 06/  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 same as item no. 02  6797.03 = cum | 6797.03 cum |
| 07/  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=05 x 50% =37175.80 cum | 37175.80  cum |
|  | 2 no lead | Same as item no=05 x 50% =37175.80 cum | 37175.80  cum |

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| 08 | Preparetion of mobilization of the site for construction of submersoble embankment or other structural components in c/w``Haor Flood Management and Livelihood Improvement Project (BWDB part) as per Technical Specifications, including land lease, rental charges, obtaining permissions for work, developing work area, preparation of platform for temporary semi pucca site office (40sqm), CI sheet labor sheds (200sqm), CI sheet stores (200 sqm), supply of wooden & cane seated furniture etc. as per specified and as per Contractor's method Statement and as per direction of Engineer in Charge. | L.S item = 1 nos | 1 nos |
| 09 | Peovide and maintain 1 (one) no. Engine boat with boatmen having sun and rainproof cover to facilitate supervision by the Engineer/Engineer's Representative during whole construction period of the work as per Technical Specification, Contractor's Method Statement and as per direction of Engineer in Charge. | Boat = 2 nos  50 days x 2 = 100 days  50 days x 2 = 100 days  Total = 200 days | 200 days |
| 10 | Demobilization and clean-up of the site upon completion of the works, as per Technical Specification, Contractor's Method Statement and as per direction of Engineer in Charge. | L.S item = 1 nos | 1 nos |
| 11 | Providing and maintaining adequate portable water supply by installing 4 nos. of tube well and sanitation facilities by installing 6 nos. of sanitary latrines for usage of labours, Officials and others for prevailing the hygenic and healthy environment at allover the working sithe as per direction of the engineer in charge. | L.S item = 1 nos | 1 nos |
| 12 | Mobilize, strengthen required land based consatruction equipment such as excavator, dump truck, chain dozer, vibro-compactor and plants such as gemetor for site electrification, digital camera for taking photographs and digital vedio camera for recording/Taking Photograph as sequences of works etc. for keeping records of the works by providing following information including transfer to site, complete for the purposes stated in the technical specification and Contractor's Method Statement and as per direction of Engineer in Charge. | L.S item = 1 nos | 1 nos |
| 13 | Operate, maintain of plant and equipment such as generator for site electrification for the purpose stated in the technical specification and Contractor's Method Statement and as per direction of Engineer in Charge. | L.S item = 1 nos | 1 nos |