Individual Report

Tender/Proposal Detail			
Tender/Proposal ID :	65468	**Invitation Reference No. :**	T-1/WDB/Kishore/3930 Date 06-09-2016
Closing Date and Time :	03-Nov-2016 12:00	**Opening Date and Time :**	03-Nov-2016 15:00
Procuring Entity :	Kishoreganj WD Division		
Brief :	Construction of Mahindra Khal Regulator (4V-1.5 x 1.80m) at km 12.18 & Re-Excavation of Drainage khal at Nunnir Haor a) Katakhali Khal from km 0.00 to km 0.200 & km 0.400 to km 4.000= 3.80 km b) Samar bari khal form km. 0.100 to km 3.99=3.890 km c) Mahinhandra khal from km 1.00 to km 1.90=0.900km d) Kata khal from km 0.100 to km 0.600=0.500km e)Kurigai Gang from km 0.00 to km 7.350 =7.350 km f)Beri Gang from km 0.00 to km 3.56=3.56km Total length =20.000 km of Nunnir Haor Sub -Project ,Part -A, in C/W Haor flood Management and Livelihood Improvement project Under Kishoreganj W.D Division,BWDB,Kishoreganj during theFinancial year 2016-17 & 2017-18		

Package No	Package Description
Package No. BWDB/Kish/HFMLIP/PW-06	Construction of Mahindra Khal Regulator (4V-1.5 x 1.80m) at km 12.18 & Re-Excavation of Drainage khal at Nunnir Haor a) Katakhali Khal from km 0.00 to km 4.500 b) Samar bari khal form km. 0.20 to km 3.99=3.89km c) Mahinhandra khal from km 1.00 to km 1.90=0.900km d) Kata khal from km 0.100 to km 0.600=0.500km e)Kurigai Gang from km 0.00 to km 8.400=7.350 km f)Beri Gang from km 0.00 to km 3.56=3.56km Total length =20.700 km of Nunnir Haor Sub -Project ,Part -A, in C/W Haor flood Management and Livelihood Improvement project Under Kishoreganj W.D Division,BWDB,Kishoreganj during theFinancial year 2016-17 & 2017-18

AKA-UCL (JV)
(JVCA)

Bill of Quantities

Bill of Quantities

Item no.	Group	Item Code (if any)	Description of Item	Measurement Unit	Quantity	Unit Price In figures (BDT)	Unit Price In Words (BDT)	Total Price In Figures (BDT)	Total Price In Words (BDT)
1 (Mahindra Khal Regulator)	04-120	04-120	Construction of B.M. Pillars at site with first class bricks in cement mortar (1:4) of size 38cm x 38cm x 75cm on cement concrete (1:2:4) base of size 50cm x 50cm x 7.5cm with 12mm thick cement plastering (1:2) on exposed surfaces of pillar and cement morter on top (1:2), with inscription of "BWDB" with 25cm of the pillar balow ground level etc. complete including ramming the backfill and the cost of all materials as per direction of Engineer in charge.	Each	4.000	1089.339	One Thousand AND Eighty-Nine point Three Three Nine	4357.356	Four Thousand Three Hundred and Fifty-Seven point Three Five Six
2	04-180	04-180	Site preparation by manually removing all miscellaneous objectional materials form entire site and removing soil upto 15cm depth including uprooting stumps, jungle clearing, levelling dressing etc. complete as per direction of Engineer in charge.	Sqm	9000.000	27.299	Twenty-Seven point Two Nine Nine	245691.000	Two Lakh Forty-Five Thousand Six Hundred and Ninety-One
							Four Lakh Forty-One Thousand		Four Lakh Forty-One Thousand

3	NSI	NSI	Mobilization with construction of inspection Facilities	LS	1.000	441980.013	Thousand Nine Hundred and Eighty point Zero One Three	441980.013	Nine Hundred and Eighty point Zero One Three
4	04-620	04-620-20	Filling of expansion joints upto a depth of 40 mm with bitumen mixed with coarse sand (FM>=2.5) in concrete works including supply of all materials etc. complete as per specification and direction of Engineer in charge. 04-620-20 . 20 mm wide.	m	37.620	65.916	Sixty-Five point Nine One Six	2479.760	Two Thousand Four Hundred and Seventy-Nine point Seven Six
5	12-100	12-100	Installation of pizeometer including supply of 40mm G.I. pipe, brass strainer, socket, labour, by wash boring, lowering, fixing the elevation and providing cover on the top of the well etc. complete as per direction of Engineer in charge.	Each	6.000	2563.484	Two Thousand Five Hundred and Sixty-Three point Four Eight Four	15380.904	Fifteen Thousand Three Hundred and Eighty point Nine Zero Four
6	16-150	16-150	Earth work in excavation of foundation trenches in all kinds of soils including leveling, dressing, placing, removal of spoils to a safe distance with initial lead of 30m and lift of 1.5m as per direction of Engineer in charge.	Cum	10519.412	167.114	One Hundred and Sixty-Seven point One One Four	1757941.017	Seventeen Lakh Fifty-Seven Thousand Nine Hundred and Forty-One point Zero One Seven
7	16-560	16-560-20	Shoring for slope protection of foundation trench, canal, embankment, road, pond etc. as per design slopes, grades including removal of spoils to a safe distance as per direction of Engineer in charge. 16-560-20, By bamboo post of 6.0m length, 60mm to 80mm dia, 20cm c/c, driven 2.0m below ground, with drum sheet walling and average 70mm dia half split bamboo batten @ 2.0m c/c fixed with nails.	Cum	243.000	674.114	Six Hundred and Seventy-Four point One One Four	163809.702	One Lakh Sixty-Three Thousand Eight Hundred and Nine point Seven Zero Two
8	12-310	12-310-20	Bailing out of water with all leads and lifts by manual labour or pump, with all arrengements 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.by pump. 12-310-20, by pump	Cum	64087.200	6.706	Six point Seven Zero Six	429768.763	Four Lakh Twenty-Nine Thousand Seven Hundred and Sixty-Eight point Seven Six Three
			Supplying at site U-shape hot rolled steel sheet pile of different section of Phosphorus=0.04%(Maximum), Sulphur = 0.04% (Maximum), Copper= 0.25% (Minimum), Tensile strength=> 490 N/mm2 , Yield strength =>296 N/mm2,				One Lakh Thirty-		Thirty-One Lakh Fifty-Three

9	44-240	44-240-10	Elongation =15% (Minimum) including all taxes, freights, incidental charges etc. complete as per direction of the Engineer -in- charge. 44-240-10 . U- Shape, hot rolled steel sheet pile: width=400 to 600 mm: height=>85mm, Th.=>8.0mm, wt per sqm. of pile wall=> 88.0 kg/m2 , Section modulus per one meter of pile width => 529 cm3/m	M.ton	22.704	138908.013	Eight Thousand Nine Hundred and Eight point Zero One Three	3153767.527	Three Thousand Seven Hundred and Sixty-Seven point Five Two Seven
10	44-320	44-320-10	Cutting of steel sheet piles to design and length and shape as per requirement in design and drawing and as per direction of Engineer in charge. 44-320-10, Up to 10mm thick.	m	84.500	35.827	Thirty-Five point Eight Two Seven	3027.382	Three Thousand AND Twenty-Seven point Three Eight Two
11	44-330	44-330	Jointing steel sheet piles of different thickness by welding to increase the length of pile as per requirement including necessary modification of the ends to receive the weld, supply of welding materials, equipments and other accessories as per specification and direction of Engineer in charge.	m	13.000	843.992	Eight Hundred and Forty-Three point Nine Nine Two	10971.896	Ten Thousand Nine Hundred and Seventy-One point Eight Nine Six
12	44-270	44-270-20	Driving steel sheet piles of various sections and weights of any type of soil, by monkey hammer including handling and placing in position, staging and supplying of all equipments like monkey hammer, pully, rope, bamboo, bullah etc. including correcting leaning beyond tolerance & other efects and any other incidental cost etc. complete (measurement will be taken on projected width x height) as per direction of Engineer in charge. 44-270-20, U-type or any other type : Upto 4.50m depth.	Sqm	258.000	1258.101	One Thousand Two Hundred and Fifty-Eight point One Zero One	324590.058	Three Lakh Twenty-Four Thousand Five Hundred and Ninety point Zero Five Eight
13	72-180	72-180	Painting of steel sheet piles, 2 coats of bitumen paint, including preparation of surface with sand paper, iron brush etc. including the cost of all materials and labour etc. complete as per direction of Engineer in charge.	Sqm	422.500	289.862	Two Hundred and Eighty-Nine point Eight Six Two	122466.695	One Lakh Twenty-Two Thousand Four Hundred and Sixty-Six point Six Nine Five
14	44-310	44-310	Supplying and placing 20mm thick hessian cloth impregnated with bitumen in expansion joints or on top of sheet piles as per specification and direction of Engineer in charge.	Sqm	95.790	461.711	Four Hundred and Sixty-One point Seven One One	44227.297	Forty-Four Thousand Two Hundred and Twenty-Seven point Two Nine Seven
		44	Supplying and laying single layer polythene sheet in floor below cement concrete, RCC				Thirty-		Eighteen Thousand Eight Hundred

15	44-220	44-220-10	slab, on walls etc. complete in all respect as per direction of Engineer in charge. 44-220-10, Weighing minimum 1.0kg per 6.50 sqm .	Sqm	567.520	33.149	Three point One Four Nine	18812.720	Hundred and Twelve point Seven Two
16	28-120	28-120-20	Cement concrete work in leanest mix. 1:3:6 with sand of FM>= 1.5, in foundation or floor, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in position, consolidation to levels, curing, including supply of all materials, excluding the cost of formworks etc. complete as per direction of Engineer in charge .28-120-20.,With 25mm downgraded stone chips.	Cum	60.110	10341.206	Ten Thousand Three Hundred and Forty-One point Two Zero Six	621609.893	Six Lakh Twenty-One Thousand Six Hundred and Nine point Eight Nine Three
17	28-200	28-200-10	Reinforced Cement Concrete Work in leanest mix. 1:1.5:3, with 20mm downgraded coarse aggregates and sand of FM>= 2.0 to FM >= 2.5, to attain a minimum 28 day cylinder strength of 22.0 N/mm2, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in forms, consolidation to levels, curing, including supply of all materials, excluding cost of M.S. work for reinforcements and formworks etc. complete and as per direction of Engineer in charge. 28-200-10, With stone chips.	Cum	442.415	11491.743	Eleven Thousand Four Hundred and Ninety-One point Seven Four Three	5084119.479	Fifty Lakh Eighty-Four Thousand One Hundred and Nineteen point Four Seven Nine
18	76-120	76-120-10	Form work for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 40mm x 40mm x 6mm M.S. Angle frame and 25mm x 6mm F.I. bar stiffener,e including levelling and removing the forms after specified period including the cost of all materials as per dM.S. Work for reinforcement with twisted M.S. bar, fy = 414 N/mm2, (made from billet) in RCC works, including local handling, cutting, forging, bending, cleaning and fabrication with supply of twisted M.S. bar in different sizes and binding with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-120-10, 8mm dia to 30mm dia.	kg	30030.967	73.362	Seventy-Three point Three Six Two	2203131.801	Twenty-Two Lakh Three Thousand One Hundred and Thirty-One point Eight Zero One
19	76-115	76-115-10	M.S Work for reinforcement with Standard deformed bar fy=276 N/mm^2 in RCC works including local handling, cutting,forging,bending,cleaning and fabrication with supply of deformed M.S. bar in different sizes and bending with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-115-10,	kg	35.000	73.362	Seventy-Three point Three Six Two	2567.670	Two Thousand Five Hundred and Sixty-Seven point Six Seven

			6mm dia						
20a	36-150	36-150-60	Formwork for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 0mmx40mmx6mm M.S. angle frame and 25mmx6mm F.I. bar stiffener, with necessary fabrication, welding, making the forms including fitting, fixing of steel forms with necessary ties, battens, struts, nuts & bolts, props etc. as per desired shape and size including levelling and removing the forms after specified period including the cost of all materials as per direction of Engineer in charge.36-150-60 . Footing, footing beams, grade beams, foundation slab with 60-80mm dia barrack bamboo props.	sqm	270.239	721.507	Seven Hundred and Twenty-One point Five Zero Seven	194979.330	One Lakh Ninety-Four Thousand Nine Hundred and Seventy-Nine point Three Three
20b	36-150	36-150-10	36-150-10 . Vertical and inclined walls, columns, piers with 60-80mm dia barrack bamboo props.	sqm	705.036	841.147	Eight Hundred and Forty-One point One Four Seven	593038.916	Five Lakh Ninety-Three Thousand AND Thirty-Eight point Nine One Six
20c	36-150	36-150-20	36-150-20 . Deck slab, operating deck slab, top slab of barrel upto 3.5m height with 60-80mm dia barrack bamboo props.	sqm	112.490	851.124	Eight Hundred and Fifty-One point One Two Four	95742.939	Ninety-Five Thousand Seven Hundred and Forty-Two point Nine Three Nine
21	76-630	76-630-10	Supply and fitting and fixing 23cm wide P.V.C water stops having minimum strength of 13.80N/mm2 at 225% elongation and of approved quality in attraction and expansion joints with necessary arrangements for modification in shuttering and keeping the water stop in position etc. complete as per design, specification and direction of Engineer in charge. 76-630-10,3 bulb type.	m	32.400	878.435	Eight Hundred and Seventy-Eight point Four Three Five	28461.294	Twenty-Eight Thousand Four Hundred and Sixty-One point Two Nine Four
22	56-430	56-430	Filling up the expansion joints by asphalt, sand and jute waste etc. complete including supply of all materials and as per direction of Engineer in charge.	m	9.130	162.331	One Hundred and Sixty-Two point Three Three One	1482.082	One Thousand Four Hundred and Eighty-Two point Zero Eight Two
23	16-520	16-520-20	Supplying and filling sand in foundation of hydraulic structures, buildings and in protective works with selected sand, in 150mm thick layer, including levelling, dressing, ramming, watering etc. complete (compacted to 50% relative density by manual	cum	341.454	1230.287	One Thousand Two Hundred and Thirty point Two	420086.417	Four Lakh Twenty Thousand AND Eighty-Six point Four One

			laqbour using mallet/vibro compactor) as per direction of Engineer in charge. 16-520-20,sand of FM>= 1.50				Eight Seven		One Seven
24	40-610	40-610-20	Supplying and laying dry 1st class or pick jhama chips as filter in two layers (top and bottom) as per specific size, range and gradation, including breaking chips, grading, preparation of surface, compacting each layer etc. complete with supply of all materials and as per direction of Engineer in charge. Well graded between 20mm to 5mm size. (Combination of sub-item 10 and 30 or 20 and 30 shall be used)	cum	256.980	3569.753	Three Thousand Five Hundred and Sixty-Nine point Seven Five Three	917355.126	Nine Lakh Seventeen Thousand Three Hundred and Fifty-Five point One Two Six
24a	40-610	40-610-30	Well graded between 20mm to 5mm size. (Combination of sub-item 10 & 30 or 20 & 30 shall be used)	cum	256.980	3875.953	Three Thousand Eight Hundred and Seventy-Five point Nine Five Three	996042.402	Nine Lakh Ninety-Six Thousand AND Forty-Two point Four Zero Two
25	40-140	40-140-50	Manufacturing and supplying C.C. Blocks in leanest mix. 1:3:6, with cement, sand (FM>=1.5) and Stone Chips (40mm down graded), to attain a minimum 28 days cylinder strength of 9.0 N/mm² including grading, washing stone chips, mixing, laying in forms, consolidation, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks etc complete including supply of all materials (steel shutter to be used) as per direction of Engineer in charge. 40-140-50, blocks size 30cmx30cmx30cm.	Each	10291.000	304.159	Three Hundred and Four point One Five Nine	3130100.269	Thirty-One Lakh Thirty Thousand One Hundred point Two Six Nine
26	40-220	40-220-10	Labour charge for protective works in laying C.C. blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of the Engineer in charge. 40-220-10,Within 200m	Cum	277.857	1118.458	One Thousand One Hundred and Eighteen point Four Five Eight	310771.385	Three Lakh Ten Thousand Seven Hundred and Seventy-One point Three Eight Five
27	76-170	76-170	M.S. Work in plates, angles, channels, flat bars, Tees etc. including fabricating, machining, cutting, bending, welding, forging, drilling, revetting, embedding anchor bars, staging and fitting, fixing, local handling etc. complete with energy consumption and supply of labours including the cost of materials as per design, specification and direction of Engineer in charge.	kg	3384.380	152.068	One Hundred and Fifty-Two point Zero Six Eight	514655.898	Five Lakh Fourteen Thousand Six Hundred and Fifty-Five point Eight Nine Eight
			Supplying, laying, fitting and fixing of different dia G.I. pipes with all special fittings, such as bends, elbows, sockets, tees,						

28	80-230	80-230-40	unions, jam nuts etc. including cutting foundation trenches upto required depth where necessary and filling the same with earth duly compacted, making holes in floors and walls and clips, including cutting threads, making necessary connection etc. all complete including the cost of all materials as per direction of Engineer in charge. 80-230-40 . 40mm dia G.I. pipe line..	Each	7.500	232.548	Two Hundred and Thirty-Two point Five Four Eight	1744.110	One Thousand Seven Hundred and Forty-Four point One One
29	76-240	76-240-40	Manufacturing & Supplying of M.S. Vertical Lift Gate shutter of 8mm thick M.S. skin plate and stiffener with minimum 75mmx75mmx10mm M.S. angle as frame, horizontal & vertical beam, 75mmx25mmx12mm P-type rubber seal, fixed with 10mm dia x 63.5mm M.S. counter shank bolts with nuts and 40mmx10mm M.S. strip as clamp drilled spaces @ 150mm c/c, stem attachment with proper thread, nut, cotter pin and washer as per approved design including the cost of all materials of proper grade & brand new with a prime coat of redoxide where necessary as per specification and direction of Engineer in charge. 76-240-40,Size 1.95m x 1.65m	Each	4.000	95363.984	Ninety-Five Thousand Three Hundred and Sixty-Three point Nine Eight Four	381455.936	Three Lakh Eighty-One Thousand Four Hundred and Fifty-Five point Nine Three Six
30	76-260	76-260-20	Labour charge for fitting and fixing of M.S. vertical lift gate/flap gate shutters of different size including making holes in concrete for hooking arrangements with supply of necessary materials, tools and other accessories required for fitting the same to regulator/sluice and mending the damages with CC (1:2:4), removing the spoils etc.complete including the cost of all materials as per direction of Engineer in charge. 76-260-20, Size 1.95m x 1.35m or 1.95m x 1.65m	Each	4.000	9868.782	Nine Thousand Eight Hundred and Sixty-Eight point Seven Eight Two	39475.128	Thirty-Nine Thousand Four Hundred and Seventy-Five point One Two Eight
31	76-190	76-190	Manufacturing, supplying and Installation of Padestal type lifting device for slide gate with 63mm dia threaded steel shaft, 146mm outer dia bronze nut, thrust bearing, steel bevel gear etc. as per approved design including supply of all components, labours with a prime coat of redoxide where necessary etc. complete including the cost of all materials as per specification and direction of Engineer in charge.	Each	4.000	79047.625	Seventy-Nine Thousand AND Forty-Seven point Six Two Five	316190.500	Three Lakh Sixteen Thousand One Hundred and Ninety point Five
			Earth work by manual labour in re sectioning of embankment/ canal bank/ river slopes/ road/ compound etc. manually compacted by 7.0 kg iron rammer to avoid any air pocket						

32	16-140	16-140-10	in clayey soil (minimum 30% clay, 0-40% silt and 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profile in layers not exceeding 150mm thickness with clod breaking to a maximum size of 100mm, removing roots & stumps of trees of girth upto 200mm from the ground, benching the side slopes, stripping/ ploughing the base of embankment and borrow pit areas, dug bailing, bail out of water, rough dressing including 150mm cambering at the centre of the crest (where necessary) etc. complete as per direction of Engineer in charge. 16-140-10, 0 m to 3 m height.	Each	1660.000	187.941	One Hundred and Eighty-Seven point Nine Four One	311982.060	Three Lakh Eleven Thousand Nine Hundred and Eighty-Two point Zero Six
33	16-130	16-130	Earth work by manual labour in all kinds of soil in excavation or reexcavation of channels with the initial lead of 30m and lift of 1.5m including levelling, dressing and throwing the spoils to profile with breaking clods, rough dressing, clearing jungles including cutting trees upto 200mm girth, dug bailing etc. complete as per direction of Engineer in charge.	cum	15258.840	142.297	One Hundred and Forty-Two point Two Nine Seven	2171287.155	Twenty-One Lakh Seventy-One Thousand Two Hundred and Eighty-Seven point One Five Five
34	16-200	16-200	Extra rate for every additional lift of 1.0m or part thereof beyond the initial lift of 1.5m (30cm neglected) for all kinds of earth work.	Pltcum	7629.419	11.002	Eleven point Zero Zero Two	83938.868	Eighty-Three Thousand Nine Hundred and Thirty-Eight point Eight Six Eight
35	16-240	16-240	Earth work by manual labour, in all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance, (minimun 15m apart from the bank) as per direction of Engineer in charge.	cum	851.801	142.395	One Hundred and Forty-Two point Three Nine Five	121292.203	One Lakh Twenty-One Thousand Two Hundred and Ninety-Two point Two Zero Three
36	04-280	04-280-10	Constructing at site, cement mortar gauge on masonry wall, including engraving in meter, decimeter & centimeter, painting and figuring with black and red water proof paint, etc. complete as per direction of Engineer in charge. 04-280-10, 150mm x 25mm	m	8.000	69.899	Sixty-Nine point Eight Nine Nine	559.192	Five Hundred and Fifty-Nine point One Nine Two
37	16-240	16-240	Earth work by manual labour, in all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance, (minimun 15m apart from the bank) as per direction of	cum	681.440	142.297	One Hundred and Forty-Two point Two Nine Seven	96966.868	Ninety-Six Thousand Nine Hundred and Sixty-Six point Eight Six Eight

			Engineer in charge.						Eight
38	16-540	16-540-20	Back filling in hydraulic structures including all leads and lifts in 150mm layer including watering, ramming, compacting to 30% relative density etc. complete by compactor or any other suitable method as per direction of Engineer in charge. 16-540-20, Sand of FM>=0.80	cum	1937.490	789.219	Seven Hundred and Eighty-Nine point Two One Nine	1529103.920	Fifteen Lakh Twenty-Nine Thousand One Hundred and Three point Nine Two
39	16-530	16-530	Back filling in hydraulic structures and slope building in protective works including all leads and lifts with selected local soil in layer of 150mm including watering, ramming etc. complete compacted to 20% relative method as per direction of Engineer in charge.	Cum	6535.510	157.264	One Hundred and Fifty-Seven point Two Six Four	1027800.445	Ten Lakh Twenty-Seven Thousand Eight Hundred point Four Four Five
40	68-130	68-130	Supplying pressure treated wooden fall boards/stop logs of different sizes (not less than 15cm in depth) of sal, sundari, garjan, shishu or equivalent for regulator/ sluices, including fixing in position with eye hook etc. complete as per direction of Engineer in charge.	Cum	5.250	60949.219	Sixty Thousand Nine Hundred and Forty-Nine point Two One Nine	319983.400	Three Lakh Nineteen Thousand Nine Hundred and Eighty-Three point Four
41	48-100	48-100	Fine dressing and close turfing of the slopes and the crest of embankment with 75mm thick, good quality durba or charkanta sods of size 200mm x200mm, with all leads and lifts, including ramming, watering until the turf grows properly, maintaining etc. complete (measurement will be given on well grown grass only). as per direction of Engineer in charge.	Sqm	1200.000	26.771	Twenty-Six point Seven Seven One	32125.200	Thirty-Two Thousand One Hundred and Twenty-Five point Two
42	NSI	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.	LS	1.000	200000.054	Two Lakh point Zero Five Four	200000.054	Two Lakh point Zero Five Four
43 (Re-excavation of Khal)	16-100	16-100	Re-excavation of Khal 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.	Each	640.000	270.465	Two Hundred and Seventy point Four Six Five	173097.600	One Lakh Seventy-Three Thousand AND Ninety-Seven point Six
44	16-220	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	Cum	13069.690	142.256	One Hundred and Forty-Two point Two Five Six	1859241.821	Eighteen Lakh Fifty-Nine Thousand Two Hundred and Forty-One point Eight Two One

45	12-310	12-310-20	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.12-310-20: by Pump	Cum	332771.880	6.706	Six point Seven Zero Six	2231568.227	Twenty-Two Lakh Thirty-One Thousand Five Hundred and Sixty-Eight point Two Two Seven
46	16-600	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.	Cum	433280.265	94.111	Ninety-Four point One One One	40776439.019	Four Crore Seven Lakh Seventy-Six Thousand Four Hundred and Thirty-Nine point Zero One Nine
47	16-130	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.	Cum	144426.755	142.436	One Hundred and Forty-Two point Four Three Six	20571569.275	Two Crore Five Lakh Seventy-One Thousand Five Hundred and Sixty-Nine point Two Seven Five
48	16-240	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.	Cum	10455.749	142.436	One Hundred and Forty-Two point Four Three Six	1489275.065	Fourteen Lakh Eighty-Nine Thousand Two Hundred and Seventy-Five point Zero Six Five
49	16-190	16-190	Extra rate for every additional lead of 15m or part thereof beyond the initiallead of 30m upto a maximum of 19 leads (3m neglected) for all kinds of earth work. Lead= 1 no	Cum	144426.785	14.585	Fourteen point Five Eight Five	2106464.659	Twenty-One Lakh Six Thousand Four Hundred and Sixty-Four point Six Five Nine
50	NSI	NSI	Video documents for every sequence of work for every Item all Through Package	LS	1.000	82082.001	Eighty-Two Thousand AND Eighty-Two point Zero Zero One	82082.001	Eighty-Two Thousand AND Eighty-Two point Zero Zero One
									Nine Crore Seventy-Seven Lakh

							Grand Total:	97777059.697	Seventy-Seven Thousand AND Fifty-Nine point Six Nine Seven

This Bill of Quantities is Electronically Signed by Mr. Md Ali on behalf of AKA-UCL (JV)

Binimoy Construction Company (JV)
(JVCA)

Bill of Quantities

Bill of Quantities

Item no.	Group	Item Code (if any)	Description of Item	Measurement Unit	Quantity	Unit Price In figures (BDT)	Unit Price In Words (BDT)	Total Price In Figures (BDT)	Total Price In Words (BDT)
1 (Mahindra Khal Regulator)	04-120	04-120	Construction of B.M. Pillars at site with first class bricks in cement mortar (1:4) of size 38cm x 38cm x 75cm on cement concrete (1:2:4) base of size 50cm x 50cm x 7.5cm with 12mm thick cement plastering (1:2) on exposed surfaces of pillar and cement morter on top (1:2), with inscription of "BWDB" with 25cm of the pillar balow ground level etc. complete including ramming the backfill and the cost of all materials as per direction of Engineer in charge.	Each	4.000	974.416	Nine Hundred and Seventy-Four point Four One Six	3897.664	Three Thousand Eight Hundred and Ninety-Seven point Six Six Four
2	04-180	04-180	Site preparation by manually removing all miscellaneous objectional materials form entire site and removing soil upto 15cm depth including uprooting stumps, jungle clearing, levelling dressing etc. complete as per direction of Engineer in charge.	Sqm	9000.000	19.382	Nineteen point Three Eight Two	174438.000	One Lakh Seventy-Four Thousand Four Hundred and Thirty-Eight
3	NSI	NSI	Mobilization with construction of inspection Facilities	LS	1.000	200000.001	Two Lakh point Zero Zero One	200000.001	Two Lakh point Zero Zero One
4	04-620	04-620-20	Filling of expansion joints upto a depth of 40 mm with bitumen mixed with coarse sand (FM>=2.5) in concrete works including supply of all materials etc. complete as per specification and direction of Engineer in charge. 04-620-20 . 20 mm wide.	m	37.620	52.972	Fifty-Two point Nine Seven Two	1992.807	One Thousand Nine Hundred and Ninety-Two point Eight Zero Seven
5	12-100	12-100	Installation of pizeometer including supply of 40mm G.I. pipe, brass strainer, socket, labour, by wash boring, lowering, fixing the elevation and providing cover on the top of the well etc. complete as per direction of Engineer in charge.	Each	6.000	3034.743	Three Thousand AND Thirty-Four point Seven Four Three	18208.458	Eighteen Thousand Two Hundred and Eight point Four Five Eight
			Earth work in excavation of foundation trenches in all kinds of soils including leveling,				One Hundred and		Twelve Lakh Fifty-Five Thousand

6	16-150	16-150	dressing, placing, removal of spoils to a safe distance with initial lead of 30m and lift of 1.5m as per direction of Engineer in charge.	Cum	10519.412	119.337	Nineteen point Three Three Seven	1255355.070	Three Hundred and Fifty-Five point Zero Seven
7	16-560	16-560-20	Shoring for slope protection of foundation trench, canal, embankment, road, pond etc. as per design slopes, grades including removal of spoils to a safe distance as per direction of Engineer in charge. 16-560-20, By bamboo post of 6.0m length, 60mm to 80mm dia, 20cm c/c, driven 2.0m below ground, with drum sheet walling and average 70mm dia half split bamboo batten @ 2.0m c/c fixed with nails.	Cum	243.000	560.112	Five Hundred and Sixty point One One Two	136107.216	One Lakh Thirty-Six Thousand One Hundred and Seven point Two One Six
8	12-310	12-310-20	Bailing out of water with all leads and lifts by manual labour or pump, with all arrengements 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.by pump. 12-310-20, by pump	Cum	64087.200	5.502	Five point Five Zero Two	352607.774	Three Lakh Fifty-Two Thousand Six Hundred and Seven point Seven Seven Four
9	44-240	44-240-10	Supplying at site U-shape hot rolled steel sheet pile of different section of Phosphorus=0.04%(Maximum), Sulphur = 0.04% (Maximum), Copper= 0.25% (Minimum), Tensile strength=> 490 N/mm2 , Yield strength =>296 N/mm2, Elongation =15% (Minimum) including all taxes, freights, incidental charges etc. complete as per direction of the Engineer -in- charge. 44-240-10 . U- Shape, hot rolled steel sheet pile: width=400 to 600 mm: height=>85mm, Th.=>8.0mm, wt per sqm. of pile wall=> 88.0 kg/m2 , Section modulus per one meter of pile width => 529 cm3/m	M.ton	22.704	106487.865	One Lakh Six Thousand Four Hundred and Eighty-Seven point Eight Six Five	2417700.487	Twenty-Four Lakh Seventeen Thousand Seven Hundred point Four Eight Seven
10	44-320	44-320-10	Cutting of steel sheet piles to design and length and shape as per requirement in design and drawing and as per direction of Engineer in charge. 44-320-10, Up to 10mm thick.	m	84.500	30.986	Thirty point Nine Eight Six	2618.317	Two Thousand Six Hundred and Eighteen point Three One Seven
11	44-330	44-330	Jointing steel sheet piles of different thickness by welding to increase the length of pile as per requirement including necessary modification of the ends to receive the weld, supply of welding materials, equipments and other accessories as per specification and direction of	m	13.000	457.963	Four Hundred and Fifty-Seven point Nine Six Three	5953.519	Five Thousand Nine Hundred and Fifty-Three point Five One Nine

			Engineer in charge.						
12	44-270	44-270-20	Driving steel sheet piles of various sections and weights of any type of soil, by monkey hammer including handling and placing in position, staging and supplying of all equipments like monkey hammer, pully, rope, bamboo, bullah etc. including correcting leaning beyond tolerance & other efects and any other incidental cost etc. complete (measurement will be taken on projected width x height) as per direction of Engineer in charge. 44-270-20, U-type or any other type : Upto 4.50m depth.	Sqm	258.000	850.062	Eight Hundred and Fifty point Zero Six Two	219315.996	Two Lakh Nineteen Thousand Three Hundred and Fifteen point Nine Nine Six
13	72-180	72-180	Painting of steel sheet piles, 2 coats of bitumen paint, including preparation of surface with sand paper, iron brush etc. including the cost of all materials and labour etc. complete as per direction of Engineer in charge.	Sqm	422.500	239.368	Two Hundred and Thirty-Nine point Three Six Eight	101132.980	One Lakh One Thousand One Hundred and Thirty-Two point Nine Eight
14	44-310	44-310	Supplying and placing 20mm thick hessian cloth impregnated with bitumen in expansion joints or on top of sheet piles as per specification and direction of Engineer in charge.	Sqm	95.790	297.913	Two Hundred and Ninety-Seven point Nine One Three	28537.086	Twenty-Eight Thousand Five Hundred and Thirty-Seven point Zero Eight Six
15	44-220	44-220-10	Supplying and laying single layer polythene sheet in floor below cement concrete, RCC slab, on walls etc. complete in all respect as per direction of Engineer in charge. 44-220-10, Weighing minimum 1.0kg per 6.50 sqm .	Sqm	567.520	18.735	Eighteen point Seven Three Five	10632.487	Ten Thousand Six Hundred and Thirty-Two point Four Eight Seven
16	28-120	28-120-20	Cement concrete work in leanest mix. 1:3:6 with sand of FM>= 1.5, in foundation or floor, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in position, consolidation to levels, curing, including supply of all materials, excluding the cost of formworks etc. complete as per direction of Engineer in charge .28-120-20.,With 25mm downgraded stone chips.	Cum	60.110	9260.135	Nine Thousand Two Hundred and Sixty point One Three Five	556626.715	Five Lakh Fifty-Six Thousand Six Hundred and Twenty-Six point Seven One Five
17	28-200	28-200-10	Reinforced Cement Concrete Work in leanest mix. 1:1.5:3, with 20mm downgraded coarse aggregates and sand of FM>= 2.0 to FM >= 2.5, to attain a minimum 28 day cylinder strength of 22.0 N/mm2, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in forms, consolidation to levels, curing, including supply of all materials,	Cum	442.415	10485.333	Ten Thousand Four Hundred and Eighty-Five point Three Three	4638868.599	Forty-Six Lakh Thirty-Eight Thousand Eight Hundred and Sixty-Eight point Five Nine

			excluding cost of M.S. work for reinforcements and formworks etc. complete and as per direction of Engineer in charge. 28-200-10, With stone chips.				Three		Five Nine Nine
18	76-120	76-120-10	Form work for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 40mm x 40mm x 6mm M.S. Angle frame and 25mm x 6mm F.I. bar stiffener,e including levelling and removing the forms after specified period including the cost of all materials as per dM.S. Work for reinforcement with twisted M.S. bar, fy = 414 N/mm2, (made from billet) in RCC works, including local handling, cutting, forging, bending, cleaning and fabrication with supply of twisted M.S. bar in different sizes and binding with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-120-10, 8mm dia to 30mm dia.	kg	30030.967	58.364	Fifty-Eight point Three Six Four	1752727.358	Seventeen Lakh Fifty-Two Thousand Seven Hundred and Twenty-Seven point Three Five Eight
19	76-115	76-115-10	M.S Work for reinforcement with Standard deformed bar fy=276 N/mm^2 in RCC works including local handling, cutting,forging,bending,cleaning and fabrication with supply of deformed M.S. bar in different sizes and bending with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-115-10, 6mm dia	kg	35.000	65.501	Sixty-Five point Five Zero One	2292.535	Two Thousand Two Hundred and Ninety-Two point Five Three Five
20a	36-150	36-150-60	Formwork for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 0mmx40mmx6mm M.S. angle frame and 25mmx6mm F.I. bar stiffener, with necessary fabrication, welding, making the forms including fitting, fixing of steel forms with necessary ties, battens, struts, nuts & bolts, props etc. as per desired shape and size including levelling and removing the forms after specified period including the cost of all materials as per direction of Engineer in charge.36-150-60 . Footing, footing beams, grade beams, foundation slab with 60-80mm dia barrack bamboo props.	sqm	270.239	503.304	Five Hundred and Three point Three Zero Four	136012.370	One Lakh Thirty-Six Thousand AND Twelve point Three Seven
20b	36-150	36-150-10	36-150-10 . Vertical and inclined walls, columns, piers with 60-80mm dia barrack bamboo props.	sqm	705.036	619.337	Six Hundred and Nineteen point Three Three Seven	436654.881	Four Lakh Thirty-Six Thousand Six Hundred and Fifty-Four point Eight Eight One
									Seventy

20c	36-150	36-150-20	36-150-20 . Deck slab, operating deck slab, top slab of barrel upto 3.5m height with 60-80mm dia barrack bamboo props.	sqm	112.490	625.767	Six Hundred and Twenty-Five point Seven Six Seven	70392.530	Thousand Three Hundred and Ninety-Two point Five Three
21	76-630	76-630-10	Supply and fitting and fixing 23cm wide P.V.C water stops having minimum strength of 13.80N/mm2 at 225% elongation and of approved quality in attraction and expansion joints with necessary arrangements for modification in shuttering and keeping the water stop in position etc. complete as per design, specification and direction of Engineer in charge. 76-630-10,3 bulb type.	m	32.400	873.547	Eight Hundred and Seventy-Three point Five Four Seven	28302.923	Twenty-Eight Thousand Three Hundred and Two point Nine Two Three
22	56-430	56-430	Filling up the expansion joints by asphalt, sand and jute waste etc. complete including supply of all materials and as per direction of Engineer in charge.	m	9.130	124.075	One Hundred and Twenty-Four point Zero Seven Five	1132.805	One Thousand One Hundred and Thirty-Two point Eight Zero Five
23	16-520	16-520-20	Supplying and filling sand in foundation of hydraulic structures, buildings and in protective works with selected sand, in 150mm thick layer, including levelling, dressing, ramming, watering etc. complete (compacted to 50% relative density by manual laqbour using mallet/vibro compactor) as per direction of Engineer in charge. 16-520-20,sand of FM>= 1.50	cum	341.454	744.998	Seven Hundred and Forty-Four point Nine Nine Eight	254382.547	Two Lakh Fifty-Four Thousand Three Hundred and Eighty-Two point Five Four Seven
24	40-610	40-610-20	Supplying and laying dry 1st class or pick jhama chips as filter in two layers (top and bottom) as per specific size, range and gradation, including breaking chips, grading, preparation of surface, compacting each layer etc. complete with supply of all materials and as per direction of Engineer in charge. Well graded between 20mm to 5mm size. (Combination of sub-item 10 and 30 or 20 and 30 shall be used)	cum	256.980	3180.985	Three Thousand One Hundred and Eighty point Nine Eight Five	817449.525	Eight Lakh Seventeen Thousand Four Hundred and Forty-Nine point Five Two Five
24a	40-610	40-610-30	Well graded between 20mm to 5mm size. (Combination of sub-item 10 & 30 or 20 & 30 shall be used)	cum	256.980	3404.454	Three Thousand Four Hundred and Four point Four Five Four	874876.589	Eight Lakh Seventy-Four Thousand Eight Hundred and Seventy-Six point Five Eight Nine
			Manufacturing and supplying C.C. Blocks in leanest mix. 1:3:6, with cement, sand						

25	40-140	40-140-50	(FM>=1.5) and Stone Chips (40mm down graded), to attain a minimum 28 days cylinder strength of 9.0 N/mm² including grading, washing stone chips, mixing, laying in forms, consolidation, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks etc complete including supply of all materials (steel shutter to be used) as per direction of Engineer in charge. 40-140-50, blocks size 30cmx30cmx30cm.	Each	10291.000	267.635	Two Hundred and Sixty-Seven point Six Three Five	2754231.785	Twenty-Seven Lakh Fifty-Four Thousand Two Hundred and Thirty-One point Seven Eight Five
26	40-220	40-220-10	Labour charge for protective works in laying C.C. blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of the Engineer in charge. 40-220-10,Within 200m	Cum	277.857	824.005	Eight Hundred and Twenty-Four point Zero Zero Five	228955.557	Two Lakh Twenty-Eight Thousand Nine Hundred and Fifty-Five point Five Five Seven
27	76-170	76-170	M.S. Work in plates, angles, channels, flat bars, Tees etc. including fabricating, machining, cutting, bending, welding, forging, drilling, revetting, embedding anchor bars, staging and fitting, fixing, local handling etc. complete with energy consumption and supply of labours including the cost of materials as per design, specification and direction of Engineer in charge.	kg	3384.380	119.344	One Hundred and Nineteen point Three Four Four	403905.447	Four Lakh Three Thousand Nine Hundred and Five point Four Four Seven
28	80-230	80-230-40	Supplying, laying, fitting and fixing of different dia G.I. pipes with all special fittings, such as bends, elbows, sockets, tees, unions, jam nuts etc. including cutting foundation trenches upto required depth where necessary and filling the same with earth duly compacted, making holes in floors and walls and clips, including cutting threads, making necessary connection etc. all complete including the cost of all materials as per direction of Engineer in charge. 80-230-40 . 40mm dia G.I. pipe line..	Each	7.500	576.548	Five Hundred and Seventy-Six point Five Four Eight	4324.110	Four Thousand Three Hundred and Twenty-Four point One One
29	76-240	76-240-40	Manufacturing & Supplying of M.S. Vertical Lift Gate shutter of 8mm thick M.S. skin plate and stiffener with minimum 75mmx75mmx10mm M.S. angle as frame, horizontal & vertical beam, 75mmx25mmx12mm P-type rubber seal, fixed with 10mm dia x 63.5mm M.S. counter shank bolts with nuts and 40mmx10mm M.S. strip as clamp drilled spaces @ 150mm c/c, stem attachment with proper thread, nut, cotter pin and washer as per approved design including the cost of all materials of proper grade &	Each	4.000	72279.771	Seventy-Two Thousand Two Hundred and Seventy-Nine point Seven Seven One	289119.084	Two Lakh Eighty-Nine Thousand One Hundred and Nineteen point Zero Eight Four

			brand new with a prime coat of redoxide where necessary as per specification and direction of Engineer in charge. 76-240-40,Size 1.95m x 1.65m						
30	76-260	76-260-20	Labour charge for fitting and fixing of M.S. vertical lift gate/flap gate shutters of different size including making holes in concrete for hooking arrangements with supply of necessary materials, tools and other accessories required for fitting the same to regulator/sluice and mending the damages with CC (1:2:4), removing the spoils etc.complete including the cost of all materials as per direction of Engineer in charge. 76-260-20, Size 1.95m x 1.35m or 1.95m x 1.65m	Each	4.000	6649.375	Six Thousand Six Hundred and Forty-Nine point Three Seven Five	26597.500	Twenty-Six Thousand Five Hundred and Ninety-Seven point Five
31	76-190	76-190	Manufacturing, supplying and Installation of Padestal type lifting device for slide gate with 63mm dia threaded steel shaft, 146mm outer dia bronze nut, thrust bearing, steel bevel gear etc. as per approved design including supply of all components, labours with a prime coat of redoxide where necessary etc. complete including the cost of all materials as per specification and direction of Engineer in charge.	Each	4.000	67199.492	Sixty-Seven Thousand One Hundred and Ninety-Nine point Four Nine Two	268797.968	Two Lakh Sixty-Eight Thousand Seven Hundred and Ninety-Seven point Nine Six Eight
32	16-140	16-140-10	Earth work by manual labour in re sectioning of embankment/ canal bank/ river slopes/ road/ compound etc. manually compacted by 7.0 kg iron rammer to avoid any air pocket in clayey soil (minimum 30% clay, 0-40% silt and 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profile in layers not exceeding 150mm thickness with clod breaking to a maximum size of 100mm, removing roots & stumps of trees of girth upto 200mm from the ground, benching the side slopes, stripping/ ploughing the base of embankment and borrow pit areas, dug bailing, bail out of water, rough dressing including 150mm cambering at the centre of the crest (where necessary) etc. complete as per direction of Engineer in charge. 16-140-10, 0 m to 3 m height.	Each	1660.000	133.981	One Hundred and Thirty-Three point Nine Eight One	222408.460	Two Lakh Twenty-Two Thousand Four Hundred and Eight point Four Six
33	16-130	16-130	Earth work by manual labour in all kinds of soil in excavation or reexcavation of channels with the initial lead of 30m and lift of 1.5m including levelling, dressing and throwing the spoils to profile with breaking clods, rough dressing, clearing jungles including cutting trees upto 200mm girth, dug bailing	cum	15258.840	101.536	One Hundred and One point Five Three Six	1549321.578	Fifteen Lakh Forty-Nine Thousand Three Hundred and Twenty-One point Five

			etc. complete as per direction of Engineer in charge.						Seven Eight
34	16-200	16-200	Extra rate for every additional lift of 1.0m or part thereof beyond the initial lift of 1.5m (30cm neglected) for all kinds of earth work.	Pltcum	7629.419	7.851	Seven point Eight Five One	59898.569	Fifty-Nine Thousand Eight Hundred and Ninety-Eight point Five Six Nine
35	16-240	16-240	Earth work by manual labour, in all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance, (minimun 15m apart from the bank) as per direction of Engineer in charge.	cum	851.801	101.536	One Hundred and One point Five Three Six	86488.466	Eighty-Six Thousand Four Hundred and Eighty-Eight point Four Six Six
36	04-280	04-280-10	Constructing at site, cement mortar gauge on masonry wall, including engraving in meter, decimeter & centimeter, painting and figuring with black and red water proof paint, etc. complete as per direction of Engineer in charge. 04-280-10, 150mm x 25mm	m	8.000	58.079	Fifty-Eight point Zero Seven Nine	464.632	Four Hundred and Sixty-Four point Six Three Two
37	16-240	16-240	Earth work by manual labour, in all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance, (minimun 15m apart from the bank) as per direction of Engineer in charge.	cum	681.440	101.536	One Hundred and One point Five Three Six	69190.692	Sixty-Nine Thousand One Hundred and Ninety point Six Nine Two
38	16-540	16-540-20	Back filling in hydraulic structures including all leads and lifts in 150mm layer including watering, ramming, compacting to 30% relative density etc. complete by compactor or any other suitable method as per direction of Engineer in charge. 16-540-20, Sand of FM>=0.80	cum	1937.490	744.998	Seven Hundred and Forty-Four point Nine Nine Eight	1443426.175	Fourteen Lakh Forty-Three Thousand Four Hundred and Twenty-Six point One Seven Five
39	16-530	16-530	Back filling in hydraulic structures and slope building in protective works including all leads and lifts with selected local soil in layer of 150mm including watering, ramming etc. complete compacted to 20% relative method as per direction of Engineer in charge.	Cum	6535.510	116.335	One Hundred and Sixteen point Three Three Five	760308.556	Seven Lakh Sixty Thousand Three Hundred and Eight point Five Five Six
40	68-130	68-130	Supplying pressure treated wooden fall boards/stop logs of different sizes (not less than 15cm in depth) of sal, sundari, garjan, shishu or equivalent for regulator/ sluices, including fixing in position with eye hook etc. complete as per direction of Engineer in charge.	Cum	5.250	39640.861	Thirty-Nine Thousand Six Hundred and Forty point Eight Six One	208114.520	Two Lakh Eight Thousand One Hundred and Fourteen point Five Two

41	48-100	48-100	Fine dressing and close turfing of the slopes and the crest of embankment with 75mm thick, good quality durba or charkanta sods of size 200mm x200mm, with all leads and lifts, including ramming, watering until the turf grows properly, maintaining etc. complete (measurement will be given on well grown grass only). as per direction of Engineer in charge.	Sqm	1200.000	17.843	Seventeen point Eight Four Three	21411.600	Twenty-One Thousand Four Hundred and Eleven point Six
42	NSI	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.	LS	1.000	50000.001	Fifty Thousand point Zero Zero One	50000.001	Fifty Thousand point Zero Zero One
43 (Re-excavation of Khal)	16-100	16-100	Re-excavation of Khal 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.	Each	640.000	198.143	One Hundred and Ninety-Eight point One Four Three	126811.520	One Lakh Twenty-Six Thousand Eight Hundred and Eleven point Five Two
44	16-220	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	Cum	13069.690	101.507	One Hundred and One point Five Zero Seven	1326665.023	Thirteen Lakh Twenty-Six Thousand Six Hundred and Sixty-Five point Zero Two Three
45	12-310	12-310-20	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.12-310-20: by Pump	Cum	332771.880	5.502	Five point Five Zero Two	1830910.884	Eighteen Lakh Thirty Thousand Nine Hundred and Ten point Eight Eight Four
46	16-600	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.	Cum	433280.265	82.011	Eighty-Two point Zero One One	35533747.813	Three Crore Fifty-Five Lakh Thirty-Three Thousand Seven Hundred and Forty-Seven point Eight One Three
			Earth work by manual labour in all kinds of soil in excavation of channels with the initial lead of						One Crore Forty-Six Lakh

47	16-130	16-130	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.	Cum	144426.755	101.536	One Hundred and One point Five Three Six	14664514.996	Lakh Sixty-Four Thousand Five Hundred and Fourteen point Nine Nine Six
48	16-240	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.	Cum	10455.749	101.536	One Hundred and One point Five Three Six	1061634.930	Ten Lakh Sixty-One Thousand Six Hundred and Thirty-Four point Nine Three
49	16-190	16-190	Extra rate for every additional lead of 15m or part thereof beyond the initiallead of 30m upto a maximum of 19 leads (3m neglected) for all kinds of earth work. Lead= 1 no	Cum	144426.785	10.409	Ten point Four Zero Nine	1503338.405	Fifteen Lakh Three Thousand Three Hundred and Thirty-Eight point Four Zero Five
50	NSI	NSI	Video documents for every sequence of work for every Item all Through Package	LS	1.000	50000.001	Fifty Thousand point Zero Zero One	50000.001	Fifty Thousand point Zero Zero One
							Grand Total:	79042805.511	Seven Crore Ninety Lakh Forty-Two Thousand Eight Hundred and Five point Five One One

S. No.	Mapped Document Name	File Name	File Size(In Kb)
1	-	Analysis Templete Id No. 65468....pdf	32.56
2	-	Analysis Templete Id No. 65468...pdf	705.74

This Bill of Quantities is Electronically Signed by Mr. Md. Zahidur on behalf of Binimoy Construction Company (JV)

M/S. Amin & Co.

Bill of Quantities

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Item no.	Group	Item Code (if any)	Description of Item	Measurement Unit	Quantity	Unit Price In figures (BDT)	Unit Price In Words (BDT)	Total Price In Figures (BDT)	Total Price In Words (BDT)
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			Inscription of "BWDB" with 25cm of the pillar balow ground level etc. complete including ramming the backfill and the cost of all materials as per direction of Engineer in charge.				Seven		point Four Six Eight
2	04-180	04-180	Site preparation by manually removing all miscellaneous objectional materials form entire site and removing soil upto 15cm depth including uprooting stumps, jungle clearing, levelling dressing etc. complete as per direction of Engineer in charge.	Sqm	9000.000	19.516	Nineteen point Five One Six	175644.000	One Lakh Seventy-Five Thousand Six Hundred and Forty-Four
3	NSI	NSI	Mobilization with construction of inspection Facilities	LS	1.000	350000.001	Three Lakh Fifty Thousand point Zero Zero One	350000.001	Three Lakh Fifty Thousand point Zero Zero One
4	04-620	04-620-20	Filling of expansion joints upto a depth of 40 mm with bitumen mixed with coarse sand (FM>=2.5) in concrete works including supply of all materials etc. complete as per specification and direction of Engineer in charge. 04-620-20 . 20 mm wide.	m	37.620	57.686	Fifty-Seven point Six Eight Six	2170.147	Two Thousand One Hundred and Seventy point One Four Seven
5	12-100	12-100	Installation of pizeometer including supply of 40mm G.I. pipe, brass strainer, socket, labour, by wash boring, lowering, fixing the elevation and providing cover on the top of the well etc. complete as per direction of Engineer in charge.	Each	6.000	2155.992	Two Thousand One Hundred and Fifty-Five point Nine Nine Two	12935.952	Twelve Thousand Nine Hundred and Thirty-Five point Nine Five Two
6	16-150	16-150	Earth work in excavation of foundation trenches in all kinds of soils including leveling, dressing, placing, removal of spoils to a safe distance with initial lead of 30m and lift of 1.5m as per direction of Engineer in charge.	Cum	10519.412	123.247	One Hundred and Twenty-Three point Two Four Seven	1296485.971	Twelve Lakh Ninety-Six Thousand Four Hundred and Eighty-Five point Nine Seven One
7	16-560	16-560-20	Shoring for slope protection of foundation trench, canal, embankment, road, pond etc. as per design slopes, grades including removal of spoils to a safe distance as per direction of Engineer in charge. 16-560-20, By bamboo post of 6.0m length, 60mm to 80mm dia, 20cm c/c, driven 2.0m below ground, with drum sheet walling and average 70mm dia half split bamboo batten @ 2.0m c/c fixed with nails.	Cum	243.000	643.378	Six Hundred and Forty-Three point Three Seven Eight	156340.854	One Lakh Fifty-Six Thousand Three Hundred and Forty point Eight Five Four
8	12-310	12-310-20	Bailing out of water with all leads and lifts by manual labour or pump, with all arrengements 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	Cum	64087.200	5.705	Five point Seven Zero Five	365617.476	Three Lakh Sixty-Five Thousand Six Hundred and Seventeen point Four

			direction of Engineer in charge.by pump. 12-310-20, by pump						point Four Seven Six
9	44-240	44-240-10	Supplying at site U-shape hot rolled steel sheet pile of different section of Phosphorus=0.04%(Maximum), Sulphur = 0.04% (Maximum), Copper= 0.25% (Minimum), Tensile strength=> 490 N/mm2 , Yield strength =>296 N/mm2, Elongation =15% (Minimum) including all taxes, freights, incidental charges etc. complete as per direction of the Engineer -in- charge. 44-240-10 . U- Shape, hot rolled steel sheet pile: width=400 to 600 mm: height=>85mm, Th.=>8.0mm, wt per sqm. of pile wall=> 88.0 kg/m2 , Section modulus per one meter of pile width => 529 cm3/m	M.ton	22.704	130846.375	One Lakh Thirty Thousand Eight Hundred and Forty-Six point Three Seven Five	2970736.098	Twenty-Nine Lakh Seventy Thousand Seven Hundred and Thirty-Six point Zero Nine Eight
10	44-320	44-320-10	Cutting of steel sheet piles to design and length and shape as per requirement in design and drawing and as per direction of Engineer in charge. 44-320-10, Up to 10mm thick.	m	84.500	33.113	Thirty-Three point One One Three	2798.049	Two Thousand Seven Hundred and Ninety-Eight point Zero Four Nine
11	44-330	44-330	Jointing steel sheet piles of different thickness by welding to increase the length of pile as per requirement including necessary modification of the ends to receive the weld, supply of welding materials, equipments and other accessories as per specification and direction of Engineer in charge.	m	13.000	589.309	Five Hundred and Eighty-Nine point Three Zero Nine	7661.017	Seven Thousand Six Hundred and Sixty-One point Zero One Seven
12	44-270	44-270-20	Driving steel sheet piles of various sections and weights of any type of soil, by monkey hammer including handling and placing in position, staging and supplying of all equipments like monkey hammer, pully, rope, bamboo, bullah etc. including correcting leaning beyond tolerance & other efects and any other incidental cost etc. complete (measurement will be taken on projected width x height) as per direction of Engineer in charge. 44-270-20, U-type or any other type : Upto 4.50m depth.	Sqm	258.000	957.997	Nine Hundred and Fifty-Seven point Nine Nine Seven	247163.226	Two Lakh Forty-Seven Thousand One Hundred and Sixty-Three point Two Two Six
13	72-180	72-180	Painting of steel sheet piles, 2 coats of bitumen paint, including preparation of surface with sand paper, iron brush etc. including the cost of all materials and labour etc. complete as per direction of Engineer in charge.	Sqm	422.500	258.355	Two Hundred and Fifty-Eight point Three Five Five	109154.988	One Lakh Nine Thousand One Hundred and Fifty-Four point Nine Eight Eight
			Supplying and placing 20mm thick hessian cloth impregnated				Three Hundred and		Thirty-Seven Thousand Two

14	44-310	44-310	with bitumen in expansion joints or on top of sheet piles as per specification and direction of Engineer in charge.	Sqm	95.790	389.012	and Eighty-Nine point Zero One Two	37263.459	Two Hundred and Sixty-Three point Four Five Nine
15	44-220	44-220-10	Supplying and laying single layer polythene sheet in floor below cement concrete, RCC slab, on walls etc. complete in all respect as per direction of Engineer in charge. 44-220-10, Weighing minimum 1.0kg per 6.50 sqm .	Sqm	567.520	31.225	Thirty-One point Two Two Five	17720.812	Seventeen Thousand Seven Hundred and Twenty point Eight One Two
16	28-120	28-120-20	Cement concrete work in leanest mix. 1:3:6 with sand of FM>= 1.5, in foundation or floor, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in position, consolidation to levels, curing, including supply of all materials, excluding the cost of formworks etc. complete as per direction of Engineer in charge .28-120-20.,With 25mm downgraded stone chips.	Cum	60.110	8143.258	Eight Thousand One Hundred and Forty-Three point Two Five Eight	489491.238	Four Lakh Eighty-Nine Thousand Four Hundred and Ninety-One point Two Three Eight
17	28-200	28-200-10	Reinforced Cement Concrete Work in leanest mix. 1:1.5:3, with 20mm downgraded coarse aggregates and sand of FM>= 2.0 to FM >= 2.5, to attain a minimum 28 day cylinder strength of 22.0 N/mm2, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in forms, consolidation to levels, curing, including supply of all materials, excluding cost of M.S. work for reinforcements and formworks etc. complete and as per direction of Engineer in charge. 28-200-10, With stone chips.	Cum	442.415	9637.904	Nine Thousand Six Hundred and Thirty-Seven point Nine Zero Four	4263953.298	Forty-Two Lakh Sixty-Three Thousand Nine Hundred and Fifty-Three point Two Nine Eight
18	76-120	76-120-10	Form work for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 40mm x 40mm x 6mm M.S. Angle frame and 25mm x 6mm F.I. bar stiffener,e including levelling and removing the forms after specified period including the cost of all materials as per dM.S. Work for reinforcement with twisted M.S. bar, fy = 414 N/mm2, (made from billet) in RCC works, including local handling, cutting, forging, bending, cleaning and fabrication with supply of twisted M.S. bar in different sizes and binding with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-120-10, 8mm dia to 30mm dia.	kg	30030.967	87.003	Eighty-Seven point Zero Zero Three	2612784.222	Twenty-Six Lakh Twelve Thousand Seven Hundred and Eighty-Four point Two Two Two
			M.S Work for reinforcement with Standard deformed bar fy=276 N/mm^2 in RCC works including local handling,						Two Thousand

19	76-115	76-115-10	cutting,forging,bending,cleaning and fabrication with supply of deformed M.S. bar in different sizes and bending with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-115-10, 6mm dia	kg	35.000	66.424	Sixty-Six point Four Two Four	2324.840	Thousand Three Hundred and Twenty-Four point Eight Four
20a	36-150	36-150-60	Formwork for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 0mmx40mmx6mm M.S. angle frame and 25mmx6mm F.I. bar stiffener, with necessary fabrication, welding, making the forms including fitting, fixing of steel forms with necessary ties, battens, struts, nuts & bolts, props etc. as per desired shape and size including levelling and removing the forms after specified period including the cost of all materials as per direction of Engineer in charge.36-150-60 . Footing, footing beams, grade beams, foundation slab with 60-80mm dia barrack bamboo props.	sqm	270.239	546.447	Five Hundred and Forty-Six point Four Four Seven	147671.291	One Lakh Forty-Seven Thousand Six Hundred and Seventy-One point Two Nine One
20b	36-150	36-150-10	36-150-10 . Vertical and inclined walls, columns, piers with 60-80mm dia barrack bamboo props.	sqm	705.036	662.145	Six Hundred and Sixty-Two point One Four Five	466836.062	Four Lakh Sixty-Six Thousand Eight Hundred and Thirty-Six point Zero Six Two
20c	36-150	36-150-20	36-150-20 . Deck slab, operating deck slab, top slab of barrel upto 3.5m height with 60-80mm dia barrack bamboo props.	sqm	112.490	672.529	Six Hundred and Seventy-Two point Five Two Nine	75652.787	Seventy-Five Thousand Six Hundred and Fifty-Two point Seven Eight Seven
21	76-630	76-630-10	Supply and fitting and fixing 23cm wide P.V.C water stops having minimum strength of 13.80N/mm2 at 225% elongation and of approved quality in attraction and expansion joints with necessary arrangements for modification in shuttering and keeping the water stop in position etc. complete as per design, specification and direction of Engineer in charge. 76-630-10,3 bulb type.	m	32.400	1053.463	One Thousand AND Fifty-Three point Four Six Three	34132.201	Thirty-Four Thousand One Hundred and Thirty-Two point Two Zero One
22	56-430	56-430	Filling up the expansion joints by asphalt, sand and jute waste etc. complete including supply of all materials and as per direction of Engineer in charge.	m	9.130	1053.463	One Thousand AND Fifty-Three point Four Six Three	9618.117	Nine Thousand Six Hundred and Eighteen point One One Seven
			Supplying and filling sand in						

23	16-520	16-520-20	foundation of hydraulic structures, buildings and in protective works with selected sand, in 150mm thick layer, including levelling, dressing, ramming, watering etc. complete (compacted to 50% relative density by manual laqbour using mallet/vibro compactor) as per direction of Engineer in charge. 16-520-20,sand of FM>= 1.50	cum	341.454	1056.521	One Thousand AND Fifty-Six point Five Two One	360753.322	Three Lakh Sixty Thousand Seven Hundred and Fifty-Three point Three Two Two
24	40-610	40-610-20	Supplying and laying dry 1st class or pick jhama chips as filter in two layers (top and bottom) as per specific size, range and gradation, including breaking chips, grading, preparation of surface, compacting each layer etc. complete with supply of all materials and as per direction of Engineer in charge. Well graded between 20mm to 5mm size. (Combination of sub-item 10 and 30 or 20 and 30 shall be used)	cum	256.980	3398.113	Three Thousand Three Hundred and Ninety-Eight point One One Three	873247.079	Eight Lakh Seventy-Three Thousand Two Hundred and Forty-Seven point Zero Seven Nine
24a	40-610	40-610-30	Well graded between 20mm to 5mm size. (Combination of sub-item 10 & 30 or 20 & 30 shall be used)	cum	256.980	3644.263	Three Thousand Six Hundred and Forty-Four point Two Six Three	936502.706	Nine Lakh Thirty-Six Thousand Five Hundred and Two point Seven Zero Six
25	40-140	40-140-50	Manufacturing and supplying C.C. Blocks in leanest mix. 1:3:6, with cement, sand (FM>=1.5) and Stone Chips (40mm down graded), to attain a minimum 28 days cylinder strength of 9.0 N/mm² including grading, washing stone chips, mixing, laying in forms, consolidation, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks etc complete including supply of all materials (steel shutter to be used) as per direction of Engineer in charge. 40-140-50, blocks size 30cmx30cmx30cm.	Each	10291.000	237.673	Two Hundred and Thirty-Seven point Six Seven Three	2445892.843	Twenty-Four Lakh Forty-Five Thousand Eight Hundred and Ninety-Two point Eight Four Three
26	40-220	40-220-10	Labour charge for protective works in laying C.C. blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of the Engineer in charge. 40-220-10,Within 200m	Cum	277.857	815.085	Eight Hundred and Fifteen point Zero Eight Five	226477.073	Two Lakh Twenty-Six Thousand Four Hundred and Seventy-Seven point Zero Seven Three
27	76-170	76-170	M.S. Work in plates, angles, channels, flat bars, Tees etc. including fabricating, machining, cutting, bending, welding, forging, drilling, revetting, embedding anchor bars, staging and fitting, fixing, local	kg	3384.380	142.418	One Hundred and Forty-Two point	481996.631	Four Lakh Eighty-One Thousand Nine Hundred

	170	170	handling etc. complete with energy consumption and supply of labours including the cost of materials as per design, specification and direction of Engineer in charge.				Two point Four One Eight		and Ninety-Six point Six Three One
28	80-230	80-230-40	Supplying, laying, fitting and fixing of different dia G.I. pipes with all special fittings, such as bends, elbows, sockets, tees, unions, jam nuts etc. including cutting foundation trenches upto required depth where necessary and filling the same with earth duly compacted, making holes in floors and walls and clips, including cutting threads, making necessary connection etc. all complete including the cost of all materials as per direction of Engineer in charge. 80-230-40 . 40mm dia G.I. pipe line..	Each	7.500	217.856	Two Hundred and Seventeen point Eight Five Six	1633.920	One Thousand Six Hundred and Thirty-Three point Nine Two
29	76-240	76-240-40	Manufacturing & Supplying of M.S. Vertical Lift Gate shutter of 8mm thick M.S. skin plate and stiffener with minimum 75mmx75mmx10mm M.S. angle as frame, horizontal & vertical beam, 75mmx25mmx12mm P-type rubber seal, fixed with 10mm dia x 63.5mm M.S. counter shank bolts with nuts and 40mmx10mm M.S. strip as clamp drilled spaces @ 150mm c/c, stem attachment with proper thread, nut, cotter pin and washer as per approved design including the cost of all materials of proper grade & brand new with a prime coat of redoxide where necessary as per specification and direction of Engineer in charge. 76-240-40,Size 1.95m x 1.65m	Each	4.000	90434.548	Ninety Thousand Four Hundred and Thirty-Four point Five Four Eight	361738.192	Three Lakh Sixty-One Thousand Seven Hundred and Thirty-Eight point One Nine Two
30	76-260	76-260-20	Labour charge for fitting and fixing of M.S. vertical lift gate/flap gate shutters of different size including making holes in concrete for hooking arrangements with supply of necessary materials, tools and other accessories required for fitting the same to regulator/sluice and mending the damages with CC (1:2:4), removing the spoils etc.complete including the cost of all materials as per direction of Engineer in charge. 76-260-20, Size 1.95m x 1.35m or 1.95m x 1.65m	Each	4.000	8112.475	Eight Thousand One Hundred and Twelve point Four Seven Five	32449.900	Thirty-Two Thousand Four Hundred and Forty-Nine point Nine
31	76-190	76-190	Manufacturing, supplying and Installation of Padestal type lifting device for slide gate with 63mm dia threaded steel shaft, 146mm outer dia bronze nut, thrust bearing, steel bevel gear etc. as per approved design including supply of all components, labours with a prime coat of redoxide where necessary etc. complete	Each	4.000	82605.389	Eighty-Two Thousand Six Hundred and Five point Three	330421.556	Three Lakh Thirty Thousand Four Hundred and Twenty-One point

			including the cost of all materials as per specification and direction of Engineer in charge.				Eight Nine		Five Five Six
32	16-140	16-140-10	Earth work by manual labour in re sectioning of embankment/ canal bank/ river slopes/ road/ compound etc. manually compacted by 7.0 kg iron rammer to avoid any air pocket in clayey soil (minimum 30% clay, 0-40% silt and 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profile in layers not exceeding 150mm thickness with clod breaking to a maximum size of 100mm, removing roots & stumps of trees of girth upto 200mm from the ground, benching the side slopes, stripping/ ploughing the base of embankment and borrow pit areas, dug bailing, bail out of water, rough dressing including 150mm cambering at the centre of the crest (where necessary) etc. complete as per direction of Engineer in charge. 16-140-10, 0 m to 3 m height.	Each	1660.000	134.112	One Hundred and Thirty-Four point One One Two	222625.920	Two Lakh Twenty-Two Thousand Six Hundred and Twenty-Five point Nine Two
33	16-130	16-130	Earth work by manual labour in all kinds of soil in excavation or reexcavation of channels with the initial lead of 30m and lift of 1.5m including levelling, dressing and throwing the spoils to profile with breaking clods, rough dressing, clearing jungles including cutting trees upto 200mm girth, dug bailing etc. complete as per direction of Engineer in charge.	cum	15258.840	101.668	One Hundred and One point Six Six Eight	1551335.745	Fifteen Lakh Fifty-One Thousand Three Hundred and Thirty-Five point Seven Four Five
34	16-200	16-200	Extra rate for every additional lift of 1.0m or part thereof beyond the initial lift of 1.5m (30cm neglected) for all kinds of earth work.	Pltcum	7629.419	7.851	Seven point Eight Five One	59898.569	Fifty-Nine Thousand Eight Hundred and Ninety-Eight point Five Six Nine
35	16-240	16-240	Earth work by manual labour, in all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance, (minimun 15m apart from the bank) as per direction of Engineer in charge.	cum	851.801	101.668	One Hundred and One point Six Six Eight	86600.904	Eighty-Six Thousand Six Hundred point Nine Zero Four
36	04-280	04-280-10	Constructing at site, cement mortar gauge on masonry wall, including engraving in meter, decimeter & centimeter, painting and figuring with black and red water proof paint, etc. complete as per direction of Engineer in charge. 04-280-10, 150mm x 25mm	m	8.000	62.157	Sixty-Two point One Five Seven	497.256	Four Hundred and Ninety-Seven point Two Five Six
			Earth work by manual labour, in						

37	16-240	16-240	all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance, (minimun 15m apart from the bank) as per direction of Engineer in charge.	cum	681.440	101.668	One Hundred and One point Six Six Eight	69280.642	Sixty-Nine Thousand Two Hundred and Eighty point Six Four Two
38	16-540	16-540-20	Back filling in hydraulic structures including all leads and lifts in 150mm layer including watering, ramming, compacting to 30% relative density etc. complete by compactor or any other suitable method as per direction of Engineer in charge. 16-540-20, Sand of FM>=0.80	cum	1937.490	641.894	Six Hundred and Forty-One point Eight Nine Four	1243663.206	Twelve Lakh Forty-Three Thousand Six Hundred and Sixty-Three point Two Zero Six
39	16-530	16-530	Back filling in hydraulic structures and slope building in protective works including all leads and lifts with selected local soil in layer of 150mm including watering, ramming etc. complete compacted to 20% relative method as per direction of Engineer in charge.	Cum	6535.510	117.103	One Hundred and Seventeen point One Zero Three	765327.828	Seven Lakh Sixty-Five Thousand Three Hundred and Twenty-Seven point Eight Two Eight
40	68-130	68-130	Supplying pressure treated wooden fall boards/stop logs of different sizes (not less than 15cm in depth) of sal, sundari, garjan, shishu or equivalent for regulator/ sluices, including fixing in position with eye hook etc. complete as per direction of Engineer in charge.	Cum	5.250	60727.199	Sixty Thousand Seven Hundred and Twenty-Seven point One Nine Nine	318817.795	Three Lakh Eighteen Thousand Eight Hundred and Seventeen point Seven Nine Five
41	48-100	48-100	Fine dressing and close turfing of the slopes and the crest of embankment with 75mm thick, good quality durba or charkanta sods of size 200mm x200mm, with all leads and lifts, including ramming, watering until the turf grows properly, maintaining etc. complete (measurement will be given on well grown grass only). as per direction of Engineer in charge.	Sqm	1200.000	19.032	Nineteen point Zero Three Two	22838.400	Twenty-Two Thousand Eight Hundred and Thirty-Eight point Four
42	NSI	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.	LS	1.000	120000.001	One Lakh Twenty Thousand point Zero Zero One	120000.001	One Lakh Twenty Thousand point Zero Zero One
43 (Re-excavation of Khal)	16-100	16-100	Re-excavation of Khal 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.	Each	640.000	221.933	Two Hundred and Twenty-One point Nine Three Three	142037.120	One Lakh Forty-Two Thousand AND Thirty-Seven point One Two
			Earth work by manual labor in all kinds of soil in construction of cross bundh/ ring bundh as						Thirteen Lakh Twenty

44	16-220	16-220	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	Cum	13069.690	101.638	One Hundred and One point Six Three Eight	1328377.152	Twenty-Eight Thousand Three Hundred and Seventy-Seven point One Five Two
45	12-310	12-310-20	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.12-310-20: by Pump	Cum	332771.880	5.705	Five point Seven Zero Five	1898463.575	Eighteen Lakh Ninety-Eight Thousand Four Hundred and Sixty-Three point Five Seven Five
46	16-600	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.	Cum	433280.265	89.892	Eighty-Nine point Eight Nine Two	38948429.581	Three Crore Eighty-Nine Lakh Forty-Eight Thousand Four Hundred and Twenty-Nine point Five Eight One
47	16-130	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.	Cum	144426.755	101.668	One Hundred and One point Six Six Eight	14683579.327	One Crore Forty-Six Lakh Eighty-Three Thousand Five Hundred and Seventy-Nine point Three Two Seven
48	16-240	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.	Cum	10455.749	101.668	One Hundred and One point Six Six Eight	1063015.089	Ten Lakh Sixty-Three Thousand AND Fifteen point Zero Eight Nine
49	16-190	16-190	Extra rate for every additional lead of 15m or part thereof beyond the initiallead of 30m upto a maximum of 19 leads (3m neglected) for all kinds of earth work. Lead= 1 no	Cum	144426.785	10.409	Ten point Four Zero Nine	1503338.405	Fifteen Lakh Three Thousand Three Hundred and Thirty-Eight point Four Zero Five
50	NSI	NSI	Video documents for every sequence of work for every	LS	1.000	50000.001	Fifty Thousand point Zero	50000.001	Fifty Thousand point Zero

			Item all Through Package				point Zero Zero One		point Zero Zero One
							Grand Total:	83987582.312	Eight Crore Thirty-Nine Lakh Eighty-Seven Thousand Five Hundred and Eighty-Two point Three One Two

S. No.	Mapped Document Name	File Name	File Size(In Kb)
1	-	Analysis-65468.docx	341.09

This Bill of Quantities is Electronically Signed by Mr. Ruhul Amin on behalf of M/S. Amin & Co.

mdreazuddinjv
(JVCA)

Bill of Quantities

Bill of Quantities

Item no.	Group	Item Code (if any)	Description of Item	Measurement Unit	Quantity	Unit Price In figures (BDT)	Unit Price In Words (BDT)	Total Price In Figures (BDT)	Total Price In Words (BDT)
1 (Mahindra Khal Regulator)	04-120	04-120	Construction of B.M. Pillars at site with first class bricks in cement mortar (1:4) of size 38cm x 38cm x 75cm on cement concrete (1:2:4) base of size 50cm x 50cm x 7.5cm with 12mm thick cement plastering (1:2) on exposed surfaces of pillar and cement morter on top (1:2), with inscription of "BWDB" with 25cm of the pillar balow ground level etc. complete including ramming the backfill and the cost of all materials as per direction of Engineer in charge.	Each	4.000	659.703	Six Hundred and Fifty-Nine point Seven Zero Three	2638.812	Two Thousand Six Hundred and Thirty-Eight point Eight One Two
2	04-180	04-180	Site preparation by manually removing all miscellaneous objectional materials form entire site and removing soil upto 15cm depth including uprooting stumps, jungle clearing, levelling dressing etc. complete as per direction of Engineer in charge.	Sqm	9000.000	25.223	Twenty-Five point Two Two Three	227007.000	Two Lakh Twenty-Seven Thousand AND Seven
3	NSI	NSI	Mobilization with construction of inspection Facilities	LS	1.000	100000.001	One Lakh point Zero Zero One	100000.001	One Lakh point Zero Zero One
4	04-620	04-620-20	Filling of expansion joints upto a depth of 40 mm with bitumen mixed with coarse sand (FM>=2.5) in concrete works including supply of all materials etc. complete as per specification and direction of Engineer in charge. 04-620-20 . 20 mm wide.	m	37.620	67.286	Sixty-Seven point Two Eight Six	2531.299	Two Thousand Five Hundred and Thirty-One point Two Nine Nine

5	12-100	12-100	Installation of pizeometer including supply of 40mm G.I. pipe, brass strainer, socket, labour, by wash boring, lowering, fixing the elevation and providing cover on the top of the well etc. complete as per direction of Engineer in charge.	Each	6.000	2426.155	Two Thousand Four Hundred and Twenty-Six point One Five Five	14556.930	Fourteen Thousand Five Hundred and Fifty-Six point Nine Three
6	16-150	16-150	Earth work in excavation of foundation trenches in all kinds of soils including leveling, dressing, placing, removal of spoils to a safe distance with initial lead of 30m and lift of 1.5m as per direction of Engineer in charge.	Cum	10519.412	156.197	One Hundred and Fifty-Six point One Nine Seven	1643100.596	Sixteen Lakh Forty-Three Thousand One Hundred point Five Nine Six
7	16-560	16-560-20	Shoring for slope protection of foundation trench, canal, embankment, road, pond etc. as per design slopes, grades including removal of spoils to a safe distance as per direction of Engineer in charge. 16-560-20, By bamboo post of 6.0m length, 60mm to 80mm dia, 20cm c/c, driven 2.0m below ground, with drum sheet walling and average 70mm dia half split bamboo batten @ 2.0m c/c fixed with nails.	Cum	243.000	591.002	Five Hundred and Ninety-One point Zero Zero Two	143613.486	One Lakh Forty-Three Thousand Six Hundred and Thirteen point Four Eight Six
8	12-310	12-310-20	Bailing out of water with all leads and lifts by manual labour or pump, with all arrengements 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.by pump. 12-310-20, by pump	Cum	64087.200	6.041	Six point Zero Four One	387150.775	Three Lakh Eighty-Seven Thousand One Hundred and Fifty point Seven Seven Five
9	44-240	44-240-10	Supplying at site U-shape hot rolled steel sheet pile of different section of Phosphorus=0.04%(Maximum), Sulphur = 0.04% (Maximum), Copper= 0.25% (Minimum), Tensile strength=> 490 N/mm2 , Yield strength =>296 N/mm2, Elongation =15% (Minimum) including all taxes, freights, incidental charges etc. complete as per direction of the Engineer -in- charge. 44-240-10 . U- Shape, hot rolled steel sheet pile: width=400 to 600 mm: height=>85mm, Th.=>8.0mm, wt per sqm. of pile wall=> 88.0 kg/m2 , Section modulus per one meter of pile width => 529 cm3/m	M.ton	22.704	145879.426	One Lakh Forty-Five Thousand Eight Hundred and Seventy-Nine point Four Two Six	3312046.488	Thirty-Three Lakh Twelve Thousand AND Forty-Six point Four Eight Eight
10	44-320	44-320-10	Cutting of steel sheet piles to design and length and shape as per requirement in design and drawing and as per direction of Engineer in charge. 44-320-10, Up to 10mm thick.	m	84.500	35.475	Thirty-Five point Four Seven Five	2997.638	Two Thousand Nine Hundred and Ninety-Seven point Six

									Three Eight
11	44-330	44-330	Jointing steel sheet piles of different thickness by welding to increase the length of pile as per requirement including necessary modification of the ends to receive the weld, supply of welding materials, equipments and other accessories as per specification and direction of Engineer in charge.	m	13.000	828.179	Eight Hundred and Twenty-Eight point One Seven Nine	10766.327	Ten Thousand Seven Hundred and Sixty-Six point Three Two Seven
12	44-270	44-270-20	Driving steel sheet piles of various sections and weights of any type of soil, by monkey hammer including handling and placing in position, staging and supplying of all equipments like monkey hammer, pully, rope, bamboo, bullah etc. including correcting leaning beyond tolerance & other efects and any other incidental cost etc. complete (measurement will be taken on projected width x height) as per direction of Engineer in charge. 44-270-20, U-type or any other type : Upto 4.50m depth.	Sqm	258.000	1221.209	One Thousand Two Hundred and Twenty-One point Two Zero Nine	315071.922	Three Lakh Fifteen Thousand AND Seventy-One point Nine Two Two
13	72-180	72-180	Painting of steel sheet piles, 2 coats of bitumen paint, including preparation of surface with sand paper, iron brush etc. including the cost of all materials and labour etc. complete as per direction of Engineer in charge.	Sqm	422.500	298.397	Two Hundred and Ninety-Eight point Three Nine Seven	126072.733	One Lakh Twenty-Six Thousand AND Seventy-Two point Seven Three Three
14	44-310	44-310	Supplying and placing 20mm thick hessian cloth impregnated with bitumen in expansion joints or on top of sheet piles as per specification and direction of Engineer in charge.	Sqm	95.790	437.712	Four Hundred and Thirty-Seven point Seven One Two	41928.432	Forty-One Thousand Nine Hundred and Twenty-Eight point Four Three Two
15	44-220	44-220-10	Supplying and laying single layer polythene sheet in floor below cement concrete, RCC slab, on walls etc. complete in all respect as per direction of Engineer in charge. 44-220-10, Weighing minimum 1.0kg per 6.50 sqm .	Sqm	567.520	31.373	Thirty-One point Three Seven Three	17804.805	Seventeen Thousand Eight Hundred and Four point Eight Zero Five
16	28-120	28-120-20	Cement concrete work in leanest mix. 1:3:6 with sand of FM>= 1.5, in foundation or floor, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in position, consolidation to levels, curing, including supply of all materials, excluding the cost of formworks etc. complete as per direction of Engineer in charge .28-120-20.,With 25mm downgraded stone chips.	Cum	60.110	8922.796	Eight Thousand Nine Hundred and Twenty-Two point Seven Nine Six	536349.268	Five Lakh Thirty-Six Thousand Three Hundred and Forty-Nine point Two Six Eight

17	28-200	28-200-10	Reinforced Cement Concrete Work in leanest mix. 1:1.5:3, with 20mm downgraded coarse aggregates and sand of FM>= 2.0 to FM >= 2.5, to attain a minimum 28 day cylinder strength of 22.0 N/mm2, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in forms, consolidation to levels, curing, including supply of all materials, excluding cost of M.S. work for reinforcements and formworks etc. complete and as per direction of Engineer in charge. 28-200-10, With stone chips.	Cum	442.415	1251.824	One Thousand Two Hundred and Fifty-One point Eight Two Four	553825.715	Five Lakh Fifty-Three Thousand Eight Hundred and Twenty-Five point Seven One Five
18	76-120	76-120-10	Form work for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 40mm x 40mm x 6mm M.S. Angle frame and 25mm x 6mm F.I. bar stiffener,e including levelling and removing the forms after specified period including the cost of all materials as per dM.S. Work for reinforcement with twisted M.S. bar, fy = 414 N/mm2, (made from billet) in RCC works, including local handling, cutting, forging, bending, cleaning and fabrication with supply of twisted M.S. bar in different sizes and binding with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-120-10, 8mm dia to 30mm dia.	kg	30030.967	78.698	Seventy-Eight point Six Nine Eight	2363377.041	Twenty-Three Lakh Sixty-Three Thousand Three Hundred and Seventy-Seven point Zero Four One
19	76-115	76-115-10	M.S Work for reinforcement with Standard deformed bar fy=276 N/mm^2 in RCC works including local handling, cutting,forging,bending,cleaning and fabrication with supply of deformed M.S. bar in different sizes and bending with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-115-10, 6mm dia	kg	35.000	78.698	Seventy-Eight point Six Nine Eight	2754.430	Two Thousand Seven Hundred and Fifty-Four point Four Three
20a	36-150	36-150-60	Formwork for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 0mmx40mmx6mm M.S. angle frame and 25mmx6mm F.I. bar stiffener, with necessary fabrication, welding, making the forms including fitting, fixing of steel forms with necessary ties, battens, struts, nuts & bolts, props etc. as per desired shape and size including levelling and removing the forms after specified period including the cost of all materials as per direction of Engineer in charge.36-150-60 . Footing, footing beams, grade beams, foundation slab with	sqm	270.239	485.027	Four Hundred and Eighty-Five point Zero Two Seven	131073.211	One Lakh Thirty-One Thousand AND Seventy-Three point Two One One

			60-80mm dia barrack bamboo props.						
20b	36-150	36-150-10	36-150-10 . Vertical and inclined walls, columns, piers with 60-80mm dia barrack bamboo props.	sqm	705.036	2325.064	Two Thousand Three Hundred and Twenty-Five point Zero Six Four	1639253.822	Sixteen Lakh Thirty-Nine Thousand Two Hundred and Fifty-Three point Eight Two Two
20c	36-150	36-150-20	36-150-20 . Deck slab, operating deck slab, top slab of barrel upto 3.5m height with 60-80mm dia barrack bamboo props.	sqm	112.490	2333.973	Two Thousand Three Hundred and Thirty-Three point Nine Seven Three	262548.623	Two Lakh Sixty-Two Thousand Five Hundred and Forty-Eight point Six Two Three
21	76-630	76-630-10	Supply and fitting and fixing 23cm wide P.V.C water stops having minimum strength of 13.80N/mm2 at 225% elongation and of approved quality in attraction and expansion joints with necessary arrangements for modification in shuttering and keeping the water stop in position etc. complete as per design, specification and direction of Engineer in charge. 76-630-10,3 bulb type.	m	32.400	1129.417	One Thousand One Hundred and Twenty-Nine point Four One Seven	36593.111	Thirty-Six Thousand Five Hundred and Ninety-Three point One One One
22	56-430	56-430	Filling up the expansion joints by asphalt, sand and jute waste etc. complete including supply of all materials and as per direction of Engineer in charge.	m	9.130	157.689	One Hundred and Fifty-Seven point Six Eight Nine	1439.701	One Thousand Four Hundred and Thirty-Nine point Seven Zero One
23	16-520	16-520-20	Supplying and filling sand in foundation of hydraulic structures, buildings and in protective works with selected sand, in 150mm thick layer, including levelling, dressing, ramming, watering etc. complete (compacted to 50% relative density by manual laqbour using mallet/vibro compactor) as per direction of Engineer in charge. 16-520-20,sand of FM>= 1.50	cum	341.454	1160.117	One Thousand One Hundred and Sixty point One One Seven	396126.590	Three Lakh Ninety-Six Thousand One Hundred and Twenty-Six point Five Nine
24	40-610	40-610-20	Supplying and laying dry 1st class or pick jhama chips as filter in two layers (top and bottom) as per specific size, range and gradation, including breaking chips, grading, preparation of surface, compacting each layer etc. complete with supply of all materials and as per direction of Engineer in charge. Well graded between 20mm to 5mm size. (Combination of sub-item 10 and 30 or 20 and 30 shall	cum	256.980	3568.518	Three Thousand Five Hundred and Sixty-Eight point Five One Eight	917037.756	Nine Lakh Seventeen Thousand AND Thirty-Seven point Seven Five Six

			be used)						
24a	40-610	40-610-30	Well graded between 20mm to 5mm size. (Combination of sub-item 10 & 30 or 20 & 30 shall be used)	cum	256.980	3869.712	Three Thousand Eight Hundred and Sixty-Nine point Seven One Two	994438.590	Nine Lakh Ninety-Four Thousand Four Hundred and Thirty-Eight point Five Nine
25	40-140	40-140-50	Manufacturing and supplying C.C. Blocks in leanest mix. 1:3:6, with cement, sand (FM>=1.5) and Stone Chips (40mm down graded), to attain a minimum 28 days cylinder strength of 9.0 N/mm² including grading, washing stone chips, mixing, laying in forms, consolidation, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks etc complete including supply of all materials (steel shutter to be used) as per direction of Engineer in charge. 40-140-50, blocks size 30cmx30cmx30cm.	Each	10291.000	258.769	Two Hundred and Fifty-Eight point Seven Six Nine	2662991.779	Twenty-Six Lakh Sixty-Two Thousand Nine Hundred and Ninety-One point Seven Seven Nine
26	40-220	40-220-10	Labour charge for protective works in laying C.C. blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of the Engineer in charge. 40-220-10,Within 200m	Cum	277.857	1049.507	One Thousand AND Forty-Nine point Five Zero Seven	291612.866	Two Lakh Ninety-One Thousand Six Hundred and Twelve point Eight Six Six
27	76-170	76-170	M.S. Work in plates, angles, channels, flat bars, Tees etc. including fabricating, machining, cutting, bending, welding, forging, drilling, revetting, embedding anchor bars, staging and fitting, fixing, local handling etc. complete with energy consumption and supply of labours including the cost of materials as per design, specification and direction of Engineer in charge.	kg	3384.380	140.738	One Hundred and Forty point Seven Three Eight	476310.872	Four Lakh Seventy-Six Thousand Three Hundred and Ten point Eight Seven Two
28	80-230	80-230-40	Supplying, laying, fitting and fixing of different dia G.I. pipes with all special fittings, such as bends, elbows, sockets, tees, unions, jam nuts etc. including cutting foundation trenches upto required depth where necessary and filling the same with earth duly compacted, making holes in floors and walls and clips, including cutting threads, making necessary connection etc. all complete including the cost of all materials as per direction of Engineer in charge. 80-230-40 . 40mm dia G.I. pipe line..	Each	7.500	277.017	Two Hundred and Seventy-Seven point Zero One Seven	2077.628	Two Thousand AND Seventy-Seven point Six Two Eight
			Manufacturing & Supplying of M.S. Vertical Lift Gate shutter of 8mm thick M.S. skin plate						

29	76-240	76-240-40	and stiffener with minimum 75mmx75mmx10mm M.S. angle as frame, horizontal & vertical beam, 75mmx25mmx12mm P-type rubber seal, fixed with 10mm dia x 63.5mm M.S. counter shank bolts with nuts and 40mmx10mm M.S. strip as clamp drilled spaces @ 150mm c/c, stem attachment with proper thread, nut, cotter pin and washer as per approved design including the cost of all materials of proper grade & brand new with a prime coat of redoxide where necessary as per specification and direction of Engineer in charge. 76-240-40,Size 1.95m x 1.65m	Each	4.000	37464.971	Thirty-Seven Thousand Four Hundred and Sixty-Four point Nine Seven One	149859.884	One Lakh Forty-Nine Thousand Eight Hundred and Fifty-Nine point Eight Eight Four
30	76-260	76-260-20	Labour charge for fitting and fixing of M.S. vertical lift gate/flap gate shutters of different size including making holes in concrete for hooking arrangements with supply of necessary materials, tools and other accessories required for fitting the same to regulator/sluice and mending the damages with CC (1:2:4), removing the spoils etc.complete including the cost of all materials as per direction of Engineer in charge. 76-260-20, Size 1.95m x 1.35m or 1.95m x 1.65m	Each	4.000	9148.873	Nine Thousand One Hundred and Forty-Eight point Eight Seven Three	36595.492	Thirty-Six Thousand Five Hundred and Ninety-Five point Four Nine Two
31	76-190	76-190	Manufacturing, supplying and Installation of Padestal type lifting device for slide gate with 63mm dia threaded steel shaft, 146mm outer dia bronze nut, thrust bearing, steel bevel gear etc. as per approved design including supply of all components, labours with a prime coat of redoxide where necessary etc. complete including the cost of all materials as per specification and direction of Engineer in charge.	Each	4.000	84104.342	Eighty-Four Thousand One Hundred and Four point Three Four Two	336417.368	Three Lakh Thirty-Six Thousand Four Hundred and Seventeen point Three Six Eight
32	16-140	16-140-10	Earth work by manual labour in re sectioning of embankment/ canal bank/ river slopes/ road/ compound etc. manually compacted by 7.0 kg iron rammer to avoid any air pocket in clayey soil (minimum 30% clay, 0-40% silt and 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profile in layers not exceeding 150mm thickness with clod breaking to a maximum size of 100mm, removing roots & stumps of trees of girth upto 200mm from the ground, benching the side slopes, stripping/ ploughing the base of embankment and borrow pit areas, dug bailing, bail out of water, rough dressing including 150mm cambering at the	Each	1660.000	210.299	Two Hundred and Ten point Two Nine Nine	349096.340	Three Lakh Forty-Nine Thousand AND Ninety-Six point Three Four

			centre of the crest (where necessary) etc. complete as per direction of Engineer in charge. 16-140-10, 0 m to 3 m height.						
33	16-130	16-130	Earth work by manual labour in all kinds of soil in excavation or reexcavation of channels with the initial lead of 30m and lift of 1.5m including levelling, dressing and throwing the spoils to profile with breaking clods, rough dressing, clearing jungles including cutting trees upto 200mm girth, dug bailing etc. complete as per direction of Engineer in charge.	cum	15258.840	130.941	One Hundred and Thirty point Nine Four One	1998007.768	Nineteen Lakh Ninety-Eight Thousand AND Seven point Seven Six Eight
34	16-200	16-200	Extra rate for every additional lift of 1.0m or part thereof beyond the initial lift of 1.5m (30cm neglected) for all kinds of earth work.	Pltcum	7629.419	336.374	Three Hundred and Thirty-Six point Three Seven Four	2566338.187	Twenty-Five Lakh Sixty-Six Thousand Three Hundred and Thirty-Eight point One Eight Seven
35	16-240	16-240	Earth work by manual labour, in all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance, (minimun 15m apart from the bank) as per direction of Engineer in charge.	cum	851.801	130.888	One Hundred and Thirty point Eight Eight Eight	111490.529	One Lakh Eleven Thousand Four Hundred and Ninety point Five Two Nine
36	04-280	04-280-10	Constructing at site, cement mortar gauge on masonry wall, including engraving in meter, decimeter & centimeter, painting and figuring with black and red water proof paint, etc. complete as per direction of Engineer in charge. 04-280-10, 150mm x 25mm	m	8.000	73.728	Seventy-Three point Seven Two Eight	589.824	Five Hundred and Eighty-Nine point Eight Two Four
37	16-240	16-240	Earth work by manual labour, in all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance, (minimun 15m apart from the bank) as per direction of Engineer in charge.	cum	681.440	130.941	One Hundred and Thirty point Nine Four One	89228.435	Eighty-Nine Thousand Two Hundred and Twenty-Eight point Four Three Five
38	16-540	16-540-20	Back filling in hydraulic structures including all leads and lifts in 150mm layer including watering, ramming, compacting to 30% relative density etc. complete by compactor or any other suitable method as per direction of Engineer in charge. 16-540-20, Sand of FM>=0.80	cum	1937.490	746.189	Seven Hundred and Forty-Six point One Eight Nine	1445733.726	Fourteen Lakh Forty-Five Thousand Seven Hundred and Thirty-Three point Seven Two Six
			Back filling in hydraulic structures and slope building in				One		Nine Lakh Seventy-

39	16-530	16-530	protective works including all leads and lifts with selected local soil in layer of 150mm including watering, ramming etc. complete compacted to 20% relative method as per direction of Engineer in charge.	Cum	6535.510	148.605	Hundred and Forty-Eight point Six Zero Five	971209.464	One Thousand Two Hundred and Nine point Four Six Four
40	68-130	68-130	Supplying pressure treated wooden fall boards/stop logs of different sizes (not less than 15cm in depth) of sal, sundari, garjan, shishu or equivalent for regulator/ sluices, including fixing in position with eye hook etc. complete as per direction of Engineer in charge.	Cum	5.250	61109.121	Sixty-One Thousand One Hundred and Nine point One Two One	320822.885	Three Lakh Twenty Thousand Eight Hundred and Twenty-Two point Eight Eight Five
41	48-100	48-100	Fine dressing and close turfing of the slopes and the crest of embankment with 75mm thick, good quality durba or charkanta sods of size 200mm x200mm, with all leads and lifts, including ramming, watering until the turf grows properly, maintaining etc. complete (measurement will be given on well grown grass only). as per direction of Engineer in charge.	Sqm	1200.000	24.859	Twenty-Four point Eight Five Nine	29830.800	Twenty-Nine Thousand Eight Hundred and Thirty point Eight
42	NSI	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.	LS	1.000	100000.001	One Lakh point Zero Zero One	100000.001	One Lakh point Zero Zero One
43 (Re-excavation of Khal)	16-100	16-100	Re-excavation of Khal 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.	Each	640.000	245.503	Two Hundred and Forty-Five point Five Zero Three	157121.920	One Lakh Fifty-Seven Thousand One Hundred and Twenty-One point Nine Two
44	16-220	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	Cum	13069.690	130.928	One Hundred and Thirty point Nine Two Eight	1711188.372	Seventeen Lakh Eleven Thousand One Hundred and Eighty-Eight point Three Seven Two
45	12-310	12-310-20	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.12-310-20: by Pump	Cum	332771.880	6.173	Six point One Seven Three	2054200.815	Twenty Lakh Fifty-Four Thousand Two Hundred point Eight One Five

46	16-600	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.	Cum	433280.265	104.743	One Hundred and Four point Seven Four Three	45383074.797	Four Crore Fifty-Three Lakh Eighty-Three Thousand AND Seventy-Four point Seven Nine Seven
47	16-130	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.	Cum	144426.755	130.941	One Hundred and Thirty point Nine Four One	18911383.726	One Crore Eighty-Nine Lakh Eleven Thousand Three Hundred and Eighty-Three point Seven Two Six
48	16-240	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.	Cum	10455.749	130.941	One Hundred and Thirty point Nine Four One	1369086.230	Thirteen Lakh Sixty-Nine Thousand AND Eighty-Six point Two Three
49	16-190	16-190	Extra rate for every additional lead of 15m or part thereof beyond the initiallead of 30m upto a maximum of 19 leads (3m neglected) for all kinds of earth work. Lead= 1 no	Cum	144426.785	13.386	Thirteen point Three Eight Six	1933296.944	Nineteen Lakh Thirty-Three Thousand Two Hundred and Ninety-Six point Nine Four Four
50	NSI	NSI	Video documents for every sequence of work for every Item all Through Package	LS	1.000	100000.001	One Lakh point Zero Zero One	100000.001	One Lakh point Zero Zero One
							Grand Total:	97739671.755	Nine Crore Seventy-Seven Lakh Thirty-Nine Thousand Six Hundred and Seventy-One point Seven Five Five

This Bill of Quantities is Electronically Signed by Mr. reaz uddin on behalf of mdreazuddinjv

Bill of Quantities

Item no.	Group	Item Code (if any)	Description of Item	Measurement Unit	Quantity	Unit Price In figures (BDT)	Unit Price In Words (BDT)	Total Price In Figures (BDT)	Total Price In Words (BDT)
1 (Mahindra Khal Regulator)	04-120	04-120	Construction of B.M. Pillars at site with first class bricks in cement mortar (1:4) of size 38cm x 38cm x 75cm on cement concrete (1:2:4) base of size 50cm x 50cm x 7.5cm with 12mm thick cement plastering (1:2) on exposed surfaces of pillar and cement morter on top (1:2), with inscription of "BWDB" with 25cm of the pillar balow ground level etc. complete including ramming the backfill and the cost of all materials as per direction of Engineer in charge.	Each	4.000	1087.934	One Thousand AND Eighty-Seven point Nine Three Four	4351.736	Four Thousand Three Hundred and Fifty-One point Seven Three Six
2	04-180	04-180	Site preparation by manually removing all miscellaneous objectional materials form entire site and removing soil upto 15cm depth including uprooting stumps, jungle clearing, levelling dressing etc. complete as per direction of Engineer in charge.	Sqm	9000.000	24.115	Twenty-Four point One One Five	217035.000	Two Lakh Seventeen Thousand AND Thirty-Five
3	NSI	NSI	Mobilization with construction of inspection Facilities	LS	1.000	450000.001	Four Lakh Fifty Thousand point Zero Zero One	450000.001	Four Lakh Fifty Thousand point Zero Zero One
4	04-620	04-620-20	Filling of expansion joints upto a depth of 40 mm with bitumen mixed with coarse sand (FM>=2.5) in concrete works including supply of all materials etc. complete as per specification and direction of Engineer in charge. 04-620-20 . 20 mm wide.	m	37.620	62.173	Sixty-Two point One Seven Three	2338.948	Two Thousand Three Hundred and Thirty-Eight point Nine Four Eight
5	12-100	12-100	Installation of pizeometer including supply of 40mm G.I. pipe, brass strainer, socket, labour, by wash boring, lowering, fixing the elevation and providing cover on the top of the well etc. complete as per direction of Engineer in charge.	Each	6.000	2247.181	Two Thousand Two Hundred and Forty-Seven point One Eight One	13483.086	Thirteen Thousand Four Hundred and Eighty-Three point Zero Eight Six
6	16-150	16-150	Earth work in excavation of foundation trenches in all kinds of soils including leveling, dressing, placing, removal of spoils to a safe distance with initial lead of 30m and lift of 1.5m as per direction of Engineer in charge.	Cum	10519.412	150.543	One Hundred and Fifty point Five Four Three	1583623.841	Fifteen Lakh Eighty-Three Thousand Six Hundred and Twenty-Three point Eight Four One
		16	Shoring for slope protection of foundation trench, canal, embankment, road, pond etc. as per design slopes, grades including removal of spoils to a safe distance as per				Seven Hundred and Fifty		One Lakh Eighty-Two Thousand

7	16-560	16-560-20	direction of Engineer in charge. 16-560-20, By bamboo post of 6.0m length, 60mm to 80mm dia, 20cm c/c, driven 2.0m below ground, with drum sheet walling and average 70mm dia half split bamboo batten @ 2.0m c/c fixed with nails.	Cum	243.000	752.478	and Fifty-Two point Four Seven Eight	182852.154	Eight Hundred and Fifty-Two point One Five Four
8	12-310	12-310-20	Bailing out of water with all leads and lifts by manual labour or pump, with all arrengements 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.by pump. 12-310-20, by pump	Cum	64087.200	5.723	Five point Seven Two Three	366771.046	Three Lakh Sixty-Six Thousand Seven Hundred and Seventy-One point Zero Four Six
9	44-240	44-240-10	Supplying at site U-shape hot rolled steel sheet pile of different section of Phosphorus=0.04%(Maximum), Sulphur = 0.04% (Maximum), Copper= 0.25% (Minimum), Tensile strength=> 490 N/mm2 , Yield strength =>296 N/mm2, Elongation =15% (Minimum) including all taxes, freights, incidental charges etc. complete as per direction of the Engineer -in- charge. 44-240-10 . U- Shape, hot rolled steel sheet pile: width=400 to 600 mm: height=>85mm, Th.=>8.0mm, wt per sqm. of pile wall=> 88.0 kg/m2 , Section modulus per one meter of pile width => 529 cm3/m	M.ton	22.704	131227.471	One Lakh Thirty-One Thousand Two Hundred and Twenty-Seven point Four Seven One	2979388.502	Twenty-Nine Lakh Seventy-Nine Thousand Three Hundred and Eighty-Eight point Five Zero Two
10	44-320	44-320-10	Cutting of steel sheet piles to design and length and shape as per requirement in design and drawing and as per direction of Engineer in charge. 44-320-10, Up to 10mm thick.	m	84.500	35.412	Thirty-Five point Four One Two	2992.314	Two Thousand Nine Hundred and Ninety-Two point Three One Four
11	44-330	44-330	Jointing steel sheet piles of different thickness by welding to increase the length of pile as per requirement including necessary modification of the ends to receive the weld, supply of welding materials, equipments and other accessories as per specification and direction of Engineer in charge.	m	13.000	764.465	Seven Hundred and Sixty-Four point Four Six Five	9938.045	Nine Thousand Nine Hundred and Thirty-Eight point Zero Four Five
12	44-270	44-270-20	Driving steel sheet piles of various sections and weights of any type of soil, by monkey hammer including handling and placing in position, staging and supplying of all equipments like monkey hammer, pully, rope, bamboo, bullah etc. including correcting leaning beyond tolerance & other efects and any other incidental cost etc. complete (measurement will be	Sqm	258.000	1116.813	One Thousand One Hundred and Sixteen point Eight One	288137.754	Two Lakh Eighty-Eight Thousand One Hundred and Thirty-Seven point

			taken on projected width x height) as per direction of Engineer in charge. 44-270-20, U-type or any other type : Upto 4.50m depth.				Three		point Seven Five Four
13	72-180	72-180	Painting of steel sheet piles, 2 coats of bitumen paint, including preparation of surface with sand paper, iron brush etc. including the cost of all materials and labour etc. complete as per direction of Engineer in charge.	Sqm	422.500	265.254	Two Hundred and Sixty-Five point Two Five Four	112069.815	One Lakh Twelve Thousand AND Sixty-Nine point Eight One Five
14	44-310	44-310	Supplying and placing 20mm thick hessian cloth impregnated with bitumen in expansion joints or on top of sheet piles as per specification and direction of Engineer in charge.	Sqm	95.790	415.574	Four Hundred and Fifteen point Five Seven Four	39807.833	Thirty-Nine Thousand Eight Hundred and Seven point Eight Three Three
15	44-220	44-220-10	Supplying and laying single layer polythene sheet in floor below cement concrete, RCC slab, on walls etc. complete in all respect as per direction of Engineer in charge. 44-220-10, Weighing minimum 1.0kg per 6.50 sqm .	Sqm	567.520	28.236	Twenty-Eight point Two Three Six	16024.495	Sixteen Thousand AND Twenty-Four point Four Nine Five
16	28-120	28-120-20	Cement concrete work in leanest mix. 1:3:6 with sand of FM>= 1.5, in foundation or floor, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in position, consolidation to levels, curing, including supply of all materials, excluding the cost of formworks etc. complete as per direction of Engineer in charge .28-120-20.,With 25mm downgraded stone chips.	Cum	60.110	9904.597	Nine Thousand Nine Hundred and Four point Five Nine Seven	595365.326	Five Lakh Ninety-Five Thousand Three Hundred and Sixty-Five point Three Two Six
17	28-200	28-200-10	Reinforced Cement Concrete Work in leanest mix. 1:1.5:3, with 20mm downgraded coarse aggregates and sand of FM>= 2.0 to FM >= 2.5, to attain a minimum 28 day cylinder strength of 22.0 N/mm2, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in forms, consolidation to levels, curing, including supply of all materials, excluding cost of M.S. work for reinforcements and formworks etc. complete and as per direction of Engineer in charge. 28-200-10, With stone chips.	Cum	442.415	10870.462	Ten Thousand Eight Hundred and Seventy point Four Six Two	4809255.446	Forty-Eight Lakh Nine Thousand Two Hundred and Fifty-Five point Four Four Six
		76	Form work for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 40mm x 40mm x 6mm M.S. Angle frame and 25mm x 6mm F.I. bar stiffener,e including levelling and removing the forms after specified period including the cost of all materials as per dM.S. Work				Sixty-Nine		Twenty-One Lakh Three Hundred

18	76-120	76-120-10	for reinforcement with twisted M.S. bar, fy = 414 N/mm2, (made from billet) in RCC works, including local handling, cutting, forging, bending, cleaning and fabrication with supply of twisted M.S. bar in different sizes and binding with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-120-10, 8mm dia to 30mm dia.	kg	30030.967	69.939	point Nine Three Nine	2100335.801	Hundred and Thirty-Five point Eight Zero One
19	76-115	76-115-10	M.S Work for reinforcement with Standard deformed bar fy=276 N/mm^2 in RCC works including local handling, cutting,forging,bending,cleaning and fabrication with supply of deformed M.S. bar in different sizes and bending with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-115-10, 6mm dia	kg	35.000	67.251	Sixty-Seven point Two Five One	2353.785	Two Thousand Three Hundred and Fifty-Three point Seven Eight Five
20a	36-150	36-150-60	Formwork for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 0mmx40mmx6mm M.S. angle frame and 25mmx6mm F.I. bar stiffener, with necessary fabrication, welding, making the forms including fitting, fixing of steel forms with necessary ties, battens, struts, nuts & bolts, props etc. as per desired shape and size including levelling and removing the forms after specified period including the cost of all materials as per direction of Engineer in charge.36-150-60 . Footing, footing beams, grade beams, foundation slab with 60-80mm dia barrack bamboo props.	sqm	270.239	660.131	Six Hundred and Sixty point One Three One	178393.141	One Lakh Seventy-Eight Thousand Three Hundred and Ninety-Three point One Four One
20b	36-150	36-150-10	36-150-10 . Vertical and inclined walls, columns, piers with 60-80mm dia barrack bamboo props.	sqm	705.036	817.776	Eight Hundred and Seventeen point Seven Seven Six	576561.520	Five Lakh Seventy-Six Thousand Five Hundred and Sixty-One point Five Two
20c	36-150	36-150-20	36-150-20 . Deck slab, operating deck slab, top slab of barrel upto 3.5m height with 60-80mm dia barrack bamboo props.	sqm	112.490	828.901	Eight Hundred and Twenty-Eight point Nine Zero One	93243.073	Ninety-Three Thousand Two Hundred and Forty-Three point Zero Seven Three
21	76-	76-630	Supply and fitting and fixing 23cm wide P.V.C water stops having minimum strength of 13.80N/mm2 at 225% elongation and of approved quality in attraction and expansion joints with necessary	m	32.400	1024.095	One Thousand AND Twenty	33180.678	Thirty-Three Thousand One Hundred

21	630	630-10	arrangements for modification in shuttering and keeping the water stop in position etc. complete as per design, specification and direction of Engineer in charge. 76-630-10,3 bulb type.	m	32.400	1024.095	Twenty-Four point Zero Nine Five	33160.078	Hundred and Eighty point Six Seven Eight
22	56-430	56-430	Filling up the expansion joints by asphalt, sand and jute waste etc. complete including supply of all materials and as per direction of Engineer in charge.	m	9.130	145.652	One Hundred and Forty-Five point Six Five Two	1329.803	One Thousand Three Hundred and Twenty-Nine point Eight Zero Three
23	16-520	16-520-20	Supplying and filling sand in foundation of hydraulic structures, buildings and in protective works with selected sand, in 150mm thick layer, including levelling, dressing, ramming, watering etc. complete (compacted to 50% relative density by manual laqbour using mallet/vibro compactor) as per direction of Engineer in charge. 16-520-20,sand of FM>= 1.50	cum	341.454	1277.717	One Thousand Two Hundred and Seventy-Seven point Seven One Seven	436281.581	Four Lakh Thirty-Six Thousand Two Hundred and Eighty-One point Five Eight One
24	40-610	40-610-20	Supplying and laying dry 1st class or pick jhama chips as filter in two layers (top and bottom) as per specific size, range and gradation, including breaking chips, grading, preparation of surface, compacting each layer etc. complete with supply of all materials and as per direction of Engineer in charge. Well graded between 20mm to 5mm size. (Combination of sub-item 10 and 30 or 20 and 30 shall be used)	cum	256.980	3353.457	Three Thousand Three Hundred and Fifty-Three point Four Five Seven	861771.380	Eight Lakh Sixty-One Thousand Seven Hundred and Seventy-One point Three Eight
24a	40-610	40-610-30	Well graded between 20mm to 5mm size. (Combination of sub-item 10 & 30 or 20 & 30 shall be used)	cum	256.980	3660.871	Three Thousand Six Hundred and Sixty point Eight Seven One	940770.630	Nine Lakh Forty Thousand Seven Hundred and Seventy point Six Three
25	40-140	40-140-50	Manufacturing and supplying C.C. Blocks in leanest mix. 1:3:6, with cement, sand (FM>=1.5) and Stone Chips (40mm down graded), to attain a minimum 28 days cylinder strength of 9.0 N/mm² including grading, washing stone chips, mixing, laying in forms, consolidation, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks etc complete including supply of all materials (steel shutter to be used) as per direction of Engineer in charge. 40-140-50, blocks size 30cmx30cmx30cm.	Each	10291.000	286.582	Two Hundred and Eighty-Six point Five Eight Two	2949215.362	Twenty-Nine Lakh Forty-Nine Thousand Two Hundred and Fifteen point Three Six Two
			Labour charge for protective				Nine		Two Lakh Seventy-

26	40-220	40-220-10	works in laying C.C. blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of the Engineer in charge. 40-220-10,Within 200m	Cum	277.857	993.492	Nine Hundred and Ninety-Three point Four Nine Two	276048.707	Six Thousand AND Forty-Eight point Seven Zero Seven
27	76-170	76-170	M.S. Work in plates, angles, channels, flat bars, Tees etc. including fabricating, machining, cutting, bending, welding, forging, drilling, revetting, embedding anchor bars, staging and fitting, fixing, local handling etc. complete with energy consumption and supply of labours including the cost of materials as per design, specification and direction of Engineer in charge.	kg	3384.380	130.591	One Hundred and Thirty point Five Nine One	441969.569	Four Lakh Forty-One Thousand Nine Hundred and Sixty-Nine point Five Six Nine
28	80-230	80-230-40	Supplying, laying, fitting and fixing of different dia G.I. pipes with all special fittings, such as bends, elbows, sockets, tees, unions, jam nuts etc. including cutting foundation trenches upto required depth where necessary and filling the same with earth duly compacted, making holes in floors and walls and clips, including cutting threads, making necessary connection etc. all complete including the cost of all materials as per direction of Engineer in charge. 80-230-40 . 40mm dia G.I. pipe line..	Each	7.500	209.893	Two Hundred and Nine point Eight Nine Three	1574.198	One Thousand Five Hundred and Seventy-Four point One Nine Eight
29	76-240	76-240-40	Manufacturing & Supplying of M.S. Vertical Lift Gate shutter of 8mm thick M.S. skin plate and stiffener with minimum 75mmx75mmx10mm M.S. angle as frame, horizontal & vertical beam, 75mmx25mmx12mm P-type rubber seal, fixed with 10mm dia x 63.5mm M.S. counter shank bolts with nuts and 40mmx10mm M.S. strip as clamp drilled spaces @ 150mm c/c, stem attachment with proper thread, nut, cotter pin and washer as per approved design including the cost of all materials of proper grade & brand new with a prime coat of redoxide where necessary as per specification and direction of Engineer in charge. 76-240-40,Size 1.95m x 1.65m	Each	4.000	87921.029	Eighty-Seven Thousand Nine Hundred and Twenty-One point Zero Two Nine	351684.116	Three Lakh Fifty-One Thousand Six Hundred and Eighty-Four point One One Six
30	76-260	76-260-20	Labour charge for fitting and fixing of M.S. vertical lift gate/flap gate shutters of different size including making holes in concrete for hooking arrangements with supply of necessary materials, tools and other accessories required for fitting the same to regulator/sluice and mending the damages with CC (1:2:4), removing the spoils etc.complete including the cost	Each	4.000	9035.372	Nine Thousand AND Thirty-Five point Three Seven Two	36141.488	Thirty-Six Thousand One Hundred and Forty-One point Four Eight Eight

			of all materials as per direction of Engineer in charge. 76-260-20, Size 1.95m x 1.35m or 1.95m x 1.65m						
31	76-190	76-190	Manufacturing, supplying and Installation of Padestal type lifting device for slide gate with 63mm dia threaded steel shaft, 146mm outer dia bronze nut, thrust bearing, steel bevel gear etc. as per approved design including supply of all components, labours with a prime coat of redoxide where necessary etc. complete including the cost of all materials as per specification and direction of Engineer in charge.	Each	4.000	76081.136	Seventy-Six Thousand AND Eighty-One point One Three Six	304324.544	Three Lakh Four Thousand Three Hundred and Twenty-Four point Five Four Four
32	16-140	16-140-10	Earth work by manual labour in re sectioning of embankment/ canal bank/ river slopes/ road/ compound etc. manually compacted by 7.0 kg iron rammer to avoid any air pocket in clayey soil (minimum 30% clay, 0-40% silt and 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profile in layers not exceeding 150mm thickness with clod breaking to a maximum size of 100mm, removing roots & stumps of trees of girth upto 200mm from the ground, benching the side slopes, stripping/ ploughing the base of embankment and borrow pit areas, dug bailing, bail out of water, rough dressing including 150mm cambering at the centre of the crest (where necessary) etc. complete as per direction of Engineer in charge. 16-140-10, 0 m to 3 m height.	Each	1660.000	161.813	One Hundred and Sixty-One point Eight One Three	268609.580	Two Lakh Sixty-Eight Thousand Six Hundred and Nine point Five Eight
33	16-130	16-130	Earth work by manual labour in all kinds of soil in excavation or reexcavation of channels with the initial lead of 30m and lift of 1.5m including levelling, dressing and throwing the spoils to profile with breaking clods, rough dressing, clearing jungles including cutting trees upto 200mm girth, dug bailing etc. complete as per direction of Engineer in charge.	cum	15258.840	122.753	One Hundred and Twenty-Two point Seven Five Three	1873068.387	Eighteen Lakh Seventy-Three Thousand AND Sixty-Eight point Three Eight Seven
34	16-200	16-200	Extra rate for every additional lift of 1.0m or part thereof beyond the initial lift of 1.5m (30cm neglected) for all kinds of earth work.	Pltcum	7629.419	9.466	Nine point Four Six Six	72220.080	Seventy-Two Thousand Two Hundred and Twenty point Zero Eight
35	16-240	16-240	Earth work by manual labour, in all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance,	cum	851.801	122.753	One Hundred and Twenty-Two point Seven	104561.128	One Lakh Four Thousand Five Hundred and Sixty-

			(minimun 15m apart from the bank) as per direction of Engineer in charge.				Seven Five Three		One point One Two Eight
36	04-280	04-280-10	Constructing at site, cement mortar gauge on masonry wall, including engraving in meter, decimeter & centimeter, painting and figuring with black and red water proof paint, etc. complete as per direction of Engineer in charge. 04-280-10, 150mm x 25mm	m	8.000	69.879	Sixty-Nine point Eight Seven Nine	559.032	Five Hundred and Fifty-Nine point Zero Three Two
37	16-240	16-240	Earth work by manual labour, in all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance, (minimun 15m apart from the bank) as per direction of Engineer in charge.	cum	681.440	122.753	One Hundred and Twenty-Two point Seven Five Three	83648.804	Eighty-Three Thousand Six Hundred and Forty-Eight point Eight Zero Four
38	16-540	16-540-20	Back filling in hydraulic structures including all leads and lifts in 150mm layer including watering, ramming, compacting to 30% relative density etc. complete by compactor or any other suitable method as per direction of Engineer in charge. 16-540-20, Sand of FM>=0.80	cum	1937.490	678.583	Six Hundred and Seventy-Eight point Five Eight Three	1314747.777	Thirteen Lakh Fourteen Thousand Seven Hundred and Forty-Seven point Seven Seven Seven
39	16-530	16-530	Back filling in hydraulic structures and slope building in protective works including all leads and lifts with selected local soil in layer of 150mm including watering, ramming etc. complete compacted to 20% relative method as per direction of Engineer in charge.	Cum	6535.510	138.566	One Hundred and Thirty-Eight point Five Six Six	905599.479	Nine Lakh Five Thousand Five Hundred and Ninety-Nine point Four Seven Nine
40	68-130	68-130	Supplying pressure treated wooden fall boards/stop logs of different sizes (not less than 15cm in depth) of sal, sundari, garjan, shishu or equivalent for regulator/ sluices, including fixing in position with eye hook etc. complete as per direction of Engineer in charge.	Cum	5.250	55129.801	Fifty-Five Thousand One Hundred and Twenty-Nine point Eight Zero One	289431.455	Two Lakh Eighty-Nine Thousand Four Hundred and Thirty-One point Four Five Five
41	48-100	48-100	Fine dressing and close turfing of the slopes and the crest of embankment with 75mm thick, good quality durba or charkanta sods of size 200mm x200mm, with all leads and lifts, including ramming, watering until the turf grows properly, maintaining etc. complete (measurement will be given on well grown grass only). as per direction of Engineer in charge.	Sqm	1200.000	22.947	Twenty-Two point Nine Four Seven	27536.400	Twenty-Seven Thousand Five Hundred and Thirty-Six point Four
			part time employment of environmental inspector for Implementation and reporting				One Lakh Eighty		One Lakh Eighty

42	NSI	NSI	on environmental management plan provision for first aid Box and medical assistant as per specification and direction of engineer in-charge.	LS	1.000	180000.001	Eighty Thousand point Zero Zero One	180000.001	Eighty Thousand point Zero Zero One
43 (Re-excavation of Khal)	16-100	16-100	Re-excavation of Khal 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.	Each	640.000	260.411	Two Hundred and Sixty point Four One One	166663.040	One Lakh Sixty-Six Thousand Six Hundred and Sixty-Three point Zero Four
44	16-220	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	Cum	13069.690	122.717	One Hundred and Twenty-Two point Seven One Seven	1603873.148	Sixteen Lakh Three Thousand Eight Hundred and Seventy-Three point One Four Eight
45	12-310	12-310-20	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.12-310-20: by Pump	Cum	332771.880	5.723	Five point Seven Two Three	1904453.469	Nineteen Lakh Four Thousand Four Hundred and Fifty-Three point Four Six Nine
46	16-600	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.	Cum	433280.265	88.653	Eighty-Eight point Six Five Three	38411595.333	Three Crore Eighty-Four Lakh Eleven Thousand Five Hundred and Ninety-Five point Three Three Three
47	16-130	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.	Cum	144426.755	122.753	One Hundred and Twenty-Two point Seven Five Three	17728817.457	One Crore Seventy-Seven Lakh Twenty-Eight Thousand Eight Hundred and Seventeen point Four Five Seven
16-	16		Earth work by manual labor in all kinds of soil in removing cross bundh/ ring bundh, including all leads and lifts				One Hundred and Twenty		Twelve Lakh Eighty-Three Thousand Four

48	16-240	16-240	complete and placing the spoils to a safe distance, (minimum 15m apart from the bank) as per direction of Engineer in charge.	Cum	10455.749	122.753	Twenty-Two point Seven Five Three	1283474.557	Four Hundred and Seventy-Four point Five Five Seven
49	16-190	16-190	Extra rate for every additional lead of 15m or part thereof beyond the initiallead of 30m upto a maximum of 19 leads (3m neglected) for all kinds of earth work. Lead= 1 no	Cum	144426.785	12.549	Twelve point Five Four Nine	1812411.725	Eighteen Lakh Twelve Thousand Four Hundred and Eleven point Seven Two Five
50	NSI	NSI	Video documents for every sequence of work for every Item all Through Package	LS	1.000	80000.001	Eighty Thousand point Zero Zero One	80000.001	Eighty Thousand point Zero Zero One
							Grand Total:	89369885.571	Eight Crore Ninety-Three Lakh Sixty-Nine Thousand Eight Hundred and Eighty-Five point Five Seven One

S. No.	Mapped Document Name	File Name	File Size(In Kb)
1	-	Analysis forTender- ID-65468.pdf	1618.71

This Bill of Quantities is Electronically Signed by Mr. Mohammed Eunus on behalf of Mohammed Eunus & Brothers (Pvt.) Ltd.

Tazul-Dawn JV
(JVCA)

Bill of Quantities

Bill of Quantities

Item no.	Group	Item Code (if any)	Description of Item	Measurement Unit	Quantity	Unit Price In figures (BDT)	Unit Price In Words (BDT)	Total Price In Figures (BDT)	Total Price In Words (BDT)
1 (Mahindra Khal Regulator)	04-120	04-120	Construction of B.M. Pillars at site with first class bricks in cement mortar (1:4) of size 38cm x 38cm x 75cm on cement concrete (1:2:4) base of size 50cm x 50cm x 7.5cm with 12mm thick cement plastering (1:2) on exposed surfaces of pillar and cement morter on top (1:2), with inscription of "BWDB" with 25cm of the pillar balow ground level etc. complete including ramming the backfill and the cost of all materials as per direction of Engineer in charge.	Each	4.000	1204.404	One Thousand Two Hundred and Four point Four Zero Four	4817.616	Four Thousand Eight Hundred and Seventeen point Six One Six
			Site preparation by manually removing all miscellaneous						Two Lakh Thirty

2	04-180	04-180	objectional materials form entire site and removing soil upto 15cm depth including uprooting stumps, jungle clearing, levelling dressing etc. complete as per direction of Engineer in charge.	Sqm	9000.000	25.827	Twenty-Five point Eight Two Seven	232443.000	Two Thousand Four Hundred and Forty-Three
3	NSI	NSI	Mobilization with construction of inspection Facilities	LS	1.000	500000.001	Five Lakh point Zero Zero One	500000.001	Five Lakh point Zero Zero One
4	04-620	04-620-20	Filling of expansion joints upto a depth of 40 mm with bitumen mixed with coarse sand (FM>=2.5) in concrete works including supply of all materials etc. complete as per specification and direction of Engineer in charge. 04-620-20 . 20 mm wide.	m	37.620	68.123	Sixty-Eight point One Two Three	2562.787	Two Thousand Five Hundred and Sixty-Two point Seven Eight Seven
5	12-100	12-100	Installation of pizeometer including supply of 40mm G.I. pipe, brass strainer, socket, labour, by wash boring, lowering, fixing the elevation and providing cover on the top of the well etc. complete as per direction of Engineer in charge.	Each	6.000	2512.845	Two Thousand Five Hundred and Twelve point Eight Four Five	15077.070	Fifteen Thousand AND Seventy-Seven point Zero Seven
6	16-150	16-150	Earth work in excavation of foundation trenches in all kinds of soils including leveling, dressing, placing, removal of spoils to a safe distance with initial lead of 30m and lift of 1.5m as per direction of Engineer in charge.	Cum	10519.412	161.391	One Hundred and Sixty-One point Three Nine One	1697738.422	Sixteen Lakh Ninety-Seven Thousand Seven Hundred and Thirty-Eight point Four Two Two
7	16-560	16-560-20	Shoring for slope protection of foundation trench, canal, embankment, road, pond etc. as per design slopes, grades including removal of spoils to a safe distance as per direction of Engineer in charge. 16-560-20, By bamboo post of 6.0m length, 60mm to 80mm dia, 20cm c/c, driven 2.0m below ground, with drum sheet walling and average 70mm dia half split bamboo batten @ 2.0m c/c fixed with nails.	Cum	243.000	828.139	Eight Hundred and Twenty-Eight point One Three Nine	201237.777	Two Lakh One Thousand Two Hundred and Thirty-Seven point Seven Seven Seven
8	12-310	12-310-20	Bailing out of water with all leads and lifts by manual labour or pump, with all arrengements 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.by pump. 12-310-20, by pump	Cum	64087.200	6.234	Six point Two Three Four	399519.605	Three Lakh Ninety-Nine Thousand Five Hundred and Nineteen point Six Zero Five
			Supplying at site U-shape hot rolled steel sheet pile of different section of Phosphorus=0.04%(Maximum), Sulphur = 0.04% (Maximum), Copper= 0.25% (Minimum),				One Lakh		Thirty-Seven

9	44-240	44-240-10	Tensile strength=> 490 N/mm2 , Yield strength =>296 N/mm2, Elongation =15% (Minimum) including all taxes, freights, incidental charges etc. complete as per direction of the Engineer -in- charge. 44-240-10 . U- Shape, hot rolled steel sheet pile: width=400 to 600 mm: height=>85mm, Th.=>8.0mm, wt per sqm. of pile wall=> 88.0 kg/m2 , Section modulus per one meter of pile width => 529 cm3/m	M.ton	22.704	166531.751	One Lakh Sixty-Six Thousand Five Hundred and Thirty-One point Seven Five One	3780936.875	Seven Lakh Eighty Thousand Nine Hundred and Thirty-Six point Eight Seven Five
10	44-320	44-320-10	Cutting of steel sheet piles to design and length and shape as per requirement in design and drawing and as per direction of Engineer in charge. 44-320-10, Up to 10mm thick.	m	84.500	39.162	Thirty-Nine point One Six Two	3309.189	Three Thousand Three Hundred and Nine point One Eight Nine
11	44-330	44-330	Jointing steel sheet piles of different thickness by welding to increase the length of pile as per requirement including necessary modification of the ends to receive the weld, supply of welding materials, equipments and other accessories as per specification and direction of Engineer in charge.	m	13.000	845.398	Eight Hundred and Forty-Five point Three Nine Eight	10990.174	Ten Thousand Nine Hundred and Ninety point One Seven Four
12	44-270	44-270-20	Driving steel sheet piles of various sections and weights of any type of soil, by monkey hammer including handling and placing in position, staging and supplying of all equipments like monkey hammer, pully, rope, bamboo, bullah etc. including correcting leaning beyond tolerance & other efects and any other incidental cost etc. complete (measurement will be taken on projected width x height) as per direction of Engineer in charge. 44-270-20, U-type or any other type : Upto 4.50m depth.	Sqm	258.000	1422.491	One Thousand Four Hundred and Twenty-Two point Four Nine One	367002.678	Three Lakh Sixty-Seven Thousand AND Two point Six Seven Eight
13	72-180	72-180	Painting of steel sheet piles, 2 coats of bitumen paint, including preparation of surface with sand paper, iron brush etc. including the cost of all materials and labour etc. complete as per direction of Engineer in charge.	Sqm	422.500	293.333	Two Hundred and Ninety-Three point Three Three Three	123933.193	One Lakh Twenty-Three Thousand Nine Hundred and Thirty-Three point One Nine Three
14	44-310	44-310	Supplying and placing 20mm thick hessian cloth impregnated with bitumen in expansion joints or on top of sheet piles as per specification and direction of Engineer in charge.	Sqm	95.790	461.709	Four Hundred and Sixty-One point Seven Zero Nine	44227.105	Forty-Four Thousand Two Hundred and Twenty-Seven point One Zero Five
			Supplying and laying single layer polythene sheet in floor						Seventeen Thousand

15	44-220	44-220-10	below cement concrete, RCC slab, on walls etc. complete in all respect as per direction of Engineer in charge. 44-220-10, Weighing minimum 1.0kg per 6.50 sqm .	Sqm	567.520	31.225	Thirty-One point Two Two Five	17720.812	Seven Hundred and Twenty point Eight One Two
16	28-120	28-120-20	Cement concrete work in leanest mix. 1:3:6 with sand of FM>= 1.5, in foundation or floor, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in position, consolidation to levels, curing, including supply of all materials, excluding the cost of formworks etc. complete as per direction of Engineer in charge .28-120-20.,With 25mm downgraded stone chips.	Cum	60.110	10972.813	Ten Thousand Nine Hundred and Seventy-Two point Eight One Three	659575.789	Six Lakh Fifty-Nine Thousand Five Hundred and Seventy-Five point Seven Eight Nine
17	28-200	28-200-10	Reinforced Cement Concrete Work in leanest mix. 1:1.5:3, with 20mm downgraded coarse aggregates and sand of FM>= 2.0 to FM >= 2.5, to attain a minimum 28 day cylinder strength of 22.0 N/mm2, including breaking, screening, grading and washing aggregates with clear water, mixing, laying in forms, consolidation to levels, curing, including supply of all materials, excluding cost of M.S. work for reinforcements and formworks etc. complete and as per direction of Engineer in charge. 28-200-10, With stone chips.	Cum	442.415	11630.971	Eleven Thousand Six Hundred and Thirty point Nine Seven One	5145716.035	Fifty-One Lakh Forty-Five Thousand Seven Hundred and Sixteen point Zero Three Five
18	76-120	76-120-10	Form work for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 40mm x 40mm x 6mm M.S. Angle frame and 25mm x 6mm F.I. bar stiffener,e including levelling and removing the forms after specified period including the cost of all materials as per dM.S. Work for reinforcement with twisted M.S. bar, fy = 414 N/mm2, (made from billet) in RCC works, including local handling, cutting, forging, bending, cleaning and fabrication with supply of twisted M.S. bar in different sizes and binding with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-120-10, 8mm dia to 30mm dia.	kg	30030.967	89.277	Eighty-Nine point Two Seven Seven	2681074.641	Twenty-Six Lakh Eighty-One Thousand AND Seventy-Four point Six Four One
19	76-115	76-115-10	M.S Work for reinforcement with Standard deformed bar fy=276 N/mm^2 in RCC works including local handling, cutting,forging,bending,cleaning and fabrication with supply of deformed M.S. bar in different sizes and bending with 22 to 18 gages G.I. wire etc. complete including the cost of all materials as per direction of Engineer in charge. 76-115-10,	kg	35.000	74.408	Seventy-Four point Four Zero Eight	2604.280	Two Thousand Six Hundred and Four point Two Eight

			6mm dia						
20a	36-150	36-150-60	Formwork for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 0mmx40mmx6mm M.S. angle frame and 25mmx6mm F.I. bar stiffener, with necessary fabrication, welding, making the forms including fitting, fixing of steel forms with necessary ties, battens, struts, nuts & bolts, props etc. as per desired shape and size including levelling and removing the forms after specified period including the cost of all materials as per direction of Engineer in charge.36-150-60 . Footing, footing beams, grade beams, foundation slab with 60-80mm dia barrack bamboo props.	sqm	270.239	725.749	Seven Hundred and Twenty-Five point Seven Four Nine	196125.684	One Lakh Ninety-Six Thousand One Hundred and Twenty-Five point Six Eight Four
20b	36-150	36-150-10	36-150-10 . Vertical and inclined walls, columns, piers with 60-80mm dia barrack bamboo props.	sqm	705.036	900.087	Nine Hundred point Zero Eight Seven	634593.738	Six Lakh Thirty-Four Thousand Five Hundred and Ninety-Three point Seven Three Eight
20c	36-150	36-150-20	36-150-20 . Deck slab, operating deck slab, top slab of barrel upto 3.5m height with 60-80mm dia barrack bamboo props.	sqm	112.490	912.389	Nine Hundred and Twelve point Three Eight Nine	102634.639	One Lakh Two Thousand Six Hundred and Thirty-Four point Six Three Nine
21	76-630	76-630-10	Supply and fitting and fixing 23cm wide P.V.C water stops having minimum strength of 13.80N/mm2 at 225% elongation and of approved quality in attraction and expansion joints with necessary arrangements for modification in shuttering and keeping the water stop in position etc. complete as per design, specification and direction of Engineer in charge. 76-630-10,3 bulb type.	m	32.400	1131.524	One Thousand One Hundred and Thirty-One point Five Two Four	36661.378	Thirty-Six Thousand Six Hundred and Sixty-One point Three Seven Eight
22	56-430	56-430	Filling up the expansion joints by asphalt, sand and jute waste etc. complete including supply of all materials and as per direction of Engineer in charge.	m	9.130	158.833	One Hundred and Fifty-Eight point Eight Three Three	1450.145	One Thousand Four Hundred and Fifty point One Four Five
23	16-520	16-520-	Supplying and filling sand in foundation of hydraulic structures, buildings and in protective works with selected sand, in 150mm thick layer, including levelling, dressing, ramming, watering etc.	cum	341.454	1657.131	One Thousand Six Hundred and Fifty-	565834.008	Five Lakh Sixty-Five Thousand Eight Hundred and

	520	20	complete (compacted to 50% relative density by manual laqbour using mallet/vibro compactor) as per direction of Engineer in charge. 16-520-20,sand of FM>= 1.50				Seven point One Three One		and Thirty-Four point Zero Zero Eight
24	40-610	40-610-20	Supplying and laying dry 1st class or pick jhama chips as filter in two layers (top and bottom) as per specific size, range and gradation, including breaking chips, grading, preparation of surface, compacting each layer etc. complete with supply of all materials and as per direction of Engineer in charge. Well graded between 20mm to 5mm size. (Combination of sub-item 10 and 30 or 20 and 30 shall be used)	cum	256.980	3690.901	Three Thousand Six Hundred and Ninety point Nine Zero One	948487.739	Nine Lakh Forty-Eight Thousand Four Hundred and Eighty-Seven point Seven Three Nine
24a	40-610	40-610-30	Well graded between 20mm to 5mm size. (Combination of sub-item 10 & 30 or 20 & 30 shall be used)	cum	256.980	4026.334	Four Thousand AND Twenty-Six point Three Three Four	1034687.311	Ten Lakh Thirty-Four Thousand Six Hundred and Eighty-Seven point Three One One
25	40-140	40-140-50	Manufacturing and supplying C.C. Blocks in leanest mix. 1:3:6, with cement, sand (FM>=1.5) and Stone Chips (40mm down graded), to attain a minimum 28 days cylinder strength of 9.0 N/mm² including grading, washing stone chips, mixing, laying in forms, consolidation, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks etc complete including supply of all materials (steel shutter to be used) as per direction of Engineer in charge. 40-140-50, blocks size 30cmx30cmx30cm.	Each	10291.000	317.617	Three Hundred and Seventeen point Six One Seven	3268596.547	Thirty-Two Lakh Sixty-Eight Thousand Five Hundred and Ninety-Six point Five Four Seven
26	40-220	40-220-10	Labour charge for protective works in laying C.C. blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of the Engineer in charge. 40-220-10,Within 200m	Cum	277.857	1060.912	One Thousand AND Sixty point Nine One Two	294781.826	Two Lakh Ninety-Four Thousand Seven Hundred and Eighty-One point Eight Two Six
27	76-170	76-170	M.S. Work in plates, angles, channels, flat bars, Tees etc. including fabricating, machining, cutting, bending, welding, forging, drilling, revetting, embedding anchor bars, staging and fitting, fixing, local handling etc. complete with energy consumption and supply of labours including the cost of materials as per design,	kg	3384.380	144.535	One Hundred and Forty-Four point Five Three Five	489161.363	Four Lakh Eighty-Nine Thousand One Hundred and Sixty-One point Three Six Three

			specification and direction of Engineer in charge.						Three
28	80-230	80-230-40	Supplying, laying, fitting and fixing of different dia G.I. pipes with all special fittings, such as bends, elbows, sockets, tees, unions, jam nuts etc. including cutting foundation trenches upto required depth where necessary and filling the same with earth duly compacted, making holes in floors and walls and clips, including cutting threads, making necessary connection etc. all complete including the cost of all materials as per direction of Engineer in charge. 80-230-40 . 40mm dia G.I. pipe line..	Each	7.500	231.454	Two Hundred and Thirty-One point Four Five Four	1735.905	One Thousand Seven Hundred and Thirty-Five point Nine Zero Five
29	76-240	76-240-40	Manufacturing & Supplying of M.S. Vertical Lift Gate shutter of 8mm thick M.S. skin plate and stiffener with minimum 75mmx75mmx10mm M.S. angle as frame, horizontal & vertical beam, 75mmx25mmx12mm P-type rubber seal, fixed with 10mm dia x 63.5mm M.S. counter shank bolts with nuts and 40mmx10mm M.S. strip as clamp drilled spaces @ 150mm c/c, stem attachment with proper thread, nut, cotter pin and washer as per approved design including the cost of all materials of proper grade & brand new with a prime coat of redoxide where necessary as per specification and direction of Engineer in charge. 76-240-40,Size 1.95m x 1.65m	Each	4.000	97120.803	Ninety-Seven Thousand One Hundred and Twenty point Eight Zero Three	388483.212	Three Lakh Eighty-Eight Thousand Four Hundred and Eighty-Three point Two One Two
30	76-260	76-260-20	Labour charge for fitting and fixing of M.S. vertical lift gate/flap gate shutters of different size including making holes in concrete for hooking arrangements with supply of necessary materials, tools and other accessories required for fitting the same to regulator/sluice and mending the damages with CC (1:2:4), removing the spoils etc.complete including the cost of all materials as per direction of Engineer in charge. 76-260-20, Size 1.95m x 1.35m or 1.95m x 1.65m	Each	4.000	9991.905	Nine Thousand Nine Hundred and Ninety-One point Nine Zero Five	39967.620	Thirty-Nine Thousand Nine Hundred and Sixty-Seven point Six Two
31	76-190	76-190	Manufacturing, supplying and Installation of Padestal type lifting device for slide gate with 63mm dia threaded steel shaft, 146mm outer dia bronze nut, thrust bearing, steel bevel gear etc. as per approved design including supply of all components, labours with a prime coat of redoxide where necessary etc. complete including the cost of all materials as per specification and direction of Engineer in charge.	Each	4.000	83957.421	Eighty-Three Thousand Nine Hundred and Fifty-Seven point Four Two One	335829.684	Three Lakh Thirty-Five Thousand Eight Hundred and Twenty-Nine point Six Eight Four

32	16-140	16-140-10	Earth work by manual labour in re sectioning of embankment/ canal bank/ river slopes/ road/ compound etc. manually compacted by 7.0 kg iron rammer to avoid any air pocket in clayey soil (minimum 30% clay, 0-40% silt and 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profile in layers not exceeding 150mm thickness with clod breaking to a maximum size of 100mm, removing roots & stumps of trees of girth upto 200mm from the ground, benching the side slopes, stripping/ ploughing the base of embankment and borrow pit areas, dug bailing, bail out of water, rough dressing including 150mm cambering at the centre of the crest (where necessary) etc. complete as per direction of Engineer in charge. 16-140-10, 0 m to 3 m height.	Each	1660.000	171.866	One Hundred and Seventy-One point Eight Six Six	285297.560	Two Lakh Eighty-Five Thousand Two Hundred and Ninety-Seven point Five Six
33	16-130	16-130	Earth work by manual labour in all kinds of soil in excavation or reexcavation of channels with the initial lead of 30m and lift of 1.5m including levelling, dressing and throwing the spoils to profile with breaking clods, rough dressing, clearing jungles including cutting trees upto 200mm girth, dug bailing etc. complete as per direction of Engineer in charge.	cum	15258.840	130.375	One Hundred and Thirty point Three Seven Five	1989371.265	Nineteen Lakh Eighty-Nine Thousand Three Hundred and Seventy-One point Two Six Five
34	16-200	16-200	Extra rate for every additional lift of 1.0m or part thereof beyond the initial lift of 1.5m (30cm neglected) for all kinds of earth work.	Pltcum	7629.419	10.049	Ten point Zero Four Nine	76668.032	Seventy-Six Thousand Six Hundred and Sixty-Eight point Zero Three Two
35	16-240	16-240	Earth work by manual labour, in all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts complete and placing the spoils to a safe distance, (minimun 15m apart from the bank) as per direction of Engineer in charge.	cum	851.801	130.375	One Hundred and Thirty point Three Seven Five	111053.555	One Lakh Eleven Thousand AND Fifty-Three point Five Five Five
36	04-280	04-280-10	Constructing at site, cement mortar gauge on masonry wall, including engraving in meter, decimeter & centimeter, painting and figuring with black and red water proof paint, etc. complete as per direction of Engineer in charge. 04-280-10, 150mm x 25mm	m	8.000	76.151	Seventy-Six point One Five One	609.208	Six Hundred and Nine point Two Zero Eight
			Earth work by manual labour, in all kinds of soil in removing the cross bundh/ ring bundh, including all leads and lifts				One Hundred and Thirty		Eighty-Eight Thousand Eight

37	16-240	16-240	complete and placing the spoils to a safe distance, (minimun 15m apart from the bank) as per direction of Engineer in charge.	cum	681.440	130.375	point Three Seven Five	88842.740	Hundred and Forty-Two point Seven Four
38	16-540	16-540-20	Back filling in hydraulic structures including all leads and lifts in 150mm layer including watering, ramming, compacting to 30% relative density etc. complete by compactor or any other suitable method as per direction of Engineer in charge. 16-540-20, Sand of FM>=0.80	cum	1937.490	745.798	Seven Hundred and Forty-Five point Seven Nine Eight	1444976.167	Fourteen Lakh Forty-Four Thousand Nine Hundred and Seventy-Six point One Six Seven
39	16-530	16-530	Back filling in hydraulic structures and slope building in protective works including all leads and lifts with selected local soil in layer of 150mm including watering, ramming etc. complete compacted to 20% relative method as per direction of Engineer in charge.	Cum	6535.510	149.379	One Hundred and Forty-Nine point Three Seven Nine	976267.948	Nine Lakh Seventy-Six Thousand Two Hundred and Sixty-Seven point Nine Four Eight
40	68-130	68-130	Supplying pressure treated wooden fall boards/stop logs of different sizes (not less than 15cm in depth) of sal, sundari, garjan, shishu or equivalent for regulator/ sluices, including fixing in position with eye hook etc. complete as per direction of Engineer in charge.	Cum	5.250	60966.401	Sixty Thousand Nine Hundred and Sixty-Six point Four Zero One	320073.605	Three Lakh Twenty Thousand AND Seventy-Three point Six Zero Five
41	48-100	48-100	Fine dressing and close turfing of the slopes and the crest of embankment with 75mm thick, good quality durba or charkanta sods of size 200mm x200mm, with all leads and lifts, including ramming, watering until the turf grows properly, maintaining etc. complete (measurement will be given on well grown grass only). as per direction of Engineer in charge.	Sqm	1200.000	24.742	Twenty-Four point Seven Four Two	29690.400	Twenty-Nine Thousand Six Hundred and Ninety point Four
42	NSI	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.	LS	1.000	100000.001	One Lakh point Zero Zero One	100000.001	One Lakh point Zero Zero One
43 (Re-excavation of Khal)	16-100	16-100	Re-excavation of Khal 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.	Each	640.000	285.978	Two Hundred and Eighty-Five point Nine Seven Eight	183025.920	One Lakh Eighty-Three Thousand AND Twenty-Five point Nine Two
	16-	16	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				One Hundred and Thirty		Seventeen Lakh Three Thousand Four

44	16-220	16-220	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	Cum	13069.690	130.337	point Three Three Seven	1703464.186	Four Hundred and Sixty-Four point One Eight Six
45	12-310	12-310-20	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.12-310-20: by Pump	Cum	332771.880	6.234	Six point Two Three Four	2074499.900	Twenty Lakh Seventy-Four Thousand Four Hundred and Ninety-Nine point Nine
46	16-600	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.	Cum	433280.265	97.604	Ninety-Seven point Six Zero Four	42289886.985	Four Crore Twenty-Two Lakh Eighty-Nine Thousand Eight Hundred and Eighty-Six point Nine Eight Five
47	16-130	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.	Cum	144426.755	130.375	One Hundred and Thirty point Three Seven Five	18829638.183	One Crore Eighty-Eight Lakh Twenty-Nine Thousand Six Hundred and Thirty-Eight point One Eight Three
48	16-240	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.	Cum	10455.749	130.375	One Hundred and Thirty point Three Seven Five	1363168.276	Thirteen Lakh Sixty-Three Thousand One Hundred and Sixty-Eight point Two Seven Six
49	16-190	16-190	Extra rate for every additional lead of 15m or part thereof beyond the initiallead of 30m upto a maximum of 19 leads (3m neglected) for all kinds of earth work. Lead= 1 no	Cum	144426.785	13.323	Thirteen point Three Two Three	1924198.057	Nineteen Lakh Twenty-Four Thousand One Hundred and Ninety-Eight point Zero Five Seven
50	NSI	NSI	Video documents for every sequence of work for every Item all Through Package	LS	1.000	100000.001	One Lakh point Zero Zero One	100000.001	One Lakh point Zero Zero One

							Grand Total:	98120249.837	Nine Crore Eighty-One Lakh Twenty Thousand Two Hundred and Forty-Nine point Eight Three Seven

This Bill of Quantities is Electronically Signed by Mr. S.M on behalf of Tazul-Dawn JV