Individual Report

Tender/Proposal Detail			
Tender/Proposal ID :	143780	**Invitation Reference No. :**	BWDB/Kishore/T-1/6591 Date: 30/11/2017
Closing Date and Time :	04-Jan-2018 14:40	**Opening Date and Time :**	04-Jan-2018 14:40
Procuring Entity :	Kishoreganj WD Division		
Brief :	WDB/Kish/HFMLIP/PW-20 Construction of 1 Causeway-4 nos a Chhitra Khal 4.00m at km 21.77 of Nunnir Haor b Nabinpur Khal 4.00m at km 23.38 of Noapara Haor c Dipjuri Khal 4.0m at km 27.00 of Boro Haor d Sudhi Khal 4.00m at km 33.30 of Boro Haor 2Box sluice/Dranage Culvert- 4 nos a Chhagalia khal at km 10.48 of Noapara haor b Near Nasir at km 7.74 of Nunnir haor c Singhpur khal at km 11.17 of Noapara haor d Goru Chara Khal at km. 10.00 of Boro Haor 3 Irrigation Inlet structure-36 nos in different placess in Noapara haor Nunnir haor & Boro haor in c/w Haor Flood Management and Livelihood Improved Improvement ProjectBWDB Part under Kishoregange WD Division BWDB Kishoregonj during the FY 2017-18 & 2018-19. Package No. WDB/Kish/HFMLI/PW-20.		

Package No	Package Description
WDB/Kish/HFMLIP/PW-20	Construction of 1 Causeway-4 nos a Chhitra Khal 4.00m at km 21.77 of Nunnir Haor b Nabinpur Khal 4.00m at km 23.38 of Noapara Haor c Dipjuri Khal 4.0m at km 27.00 of Boro Haor d Sudhi Khal 4.00m at km 33.30 of Boro Haor 2Box sluice/Dranage Culvert- 4 nos a Chhagalia khal at km 10.48 of Noapara haor b Near Nasir at km 7.74 of Nunnir haor c Singhpur khal at km 11.17 of Noapara haor d Goru Chara Khal at km. 10.00 of Boro Haor 3 Irrigation Inlet structure-36 nos in different placess in Noapara haor Nunnir haor & Boro haor in c/w Haor Flood Management and Livelihood Improved Improvement ProjectBWDB Part under Kishoregange WD Division BWDB Kishoregonj during the FY 2017-18 & 2018-19. Package No. WDB/Kish/HFMLI/PW-20.

AKA-UCL (JV)
(JVCA)

Bill Of Quantity -06-(04 Nos Box Sluice)

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)
140	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	each	12.000	1203.771	One Thousand Two Hundred and Three point Seven Seven	14445.252	Fourteen Thousand Four Hundred and Forty-Five point Two Five

			"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 One		Two Five Two
141	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	15300.000	27.721	Twenty-Seven point Seven Two One	424131.300	Four Lakh Twenty-Four Thousand One Hundred and Thirty-One point Three
142	16-310	16-310-10	Earth work in excavation of foundation trenches in all kinds of soil as per layout plan of foundation excavation with all leads and lifts and placing the spoil earth for constructing the ring bundh/offerdam where necessary as per design and specification or disposing it to a safe distance including pushing, levelling, dressing, etc. complete as per direction of Engineer in charge. 16-310-10 : For moving spoil earth upto a distance of 100m from the centre of the pit	cum	5358.750	246.711	Two Hundred and Forty-Six point Seven One One	1322062.571	Thirteen Lakh Twenty-Two Thousand AND Sixty-Two point Five Seven One
	16	16-	Shoring for slope protection of foundation trench, canal, embankment, road, pond etc. as per design slopes, grades including				Eight Hundred and		Two Lakh Five Thousand Nine Hundred

143	16-560	560-20	removal of spoils to a safe distance as per direction of Engineer in charge. 16-560-20: By bamboo post of 6.0m length, c/c fixed with nails.	sqm	246.000	837.151	Thirty-Seven point One Five One	205939.146	Hundred and Thirty-Nine point One Four Six
144	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. 12-310-20 : By pump.	cum	163108.120	6.131	Six point One Three One	1000015.884	Ten Lakh AND Fifteen point Eight Eight Four
145	12-300	12-300	Construction of sump well with dug holes of size 1.80 m x 2.0 m, laying in position the perforated empty diesel/petrol drum sheet of 1.00 m dia to a depth 1.5m having slot area of 1000 sq.cm/sqm, slot dia being 30mm each with supply of necessary shrouding materials comprising of 60% 40mm down graded khoa and 40% coarse sand of FM>=2.50 and placing those around and beneath the drum sheet having thickness of 40cm and 50cm respectively including necessary welding, fitting etc. complete as per direction of	each	24.000	17211.171	Seventeen Thousand Two Hundred and Eleven point One Seven One	413068.104	Four Lakh Thirteen Thousand AND Sixty-Eight point One Zero Four

			Engineer in charge.						
146	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 1.0 kg per 6.50 sqm	sqm	336.790	31.221	Thirty-One point Two Two One	10514.921	Ten Thousand Five Hundred and Fourteen point Nine Two One
147	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 down graded stone chips.	Cum	48.100	11500.001	Eleven Thousand Five Hundred point Zero Zero One	553150.048	Five Lakh Fifty-Three Thousand One Hundred and Fifty point Zero Four Eight
148	28-100	28-100-20	Cement concrete work in leanest mix. 1:4:8, 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	cum	3.451	11500.001	Eleven Thousand Five Hundred point Zero Zero One	39686.503	Thirty-Nine Thousand Six Hundred and Eighty-Six point Five Zero Three

			Engineer in charge. 28-100-20 : With 25mm down graded stone chips						
149	28-200	28-200-10	Reinforced cement concrete work in leanest mix. 1:1.5:3, with 20mm down graded 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, washing aggregates with clean 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	239.844	12500.001	Twelve Thousand Five Hundred point Zero Zero One	2998050.240	Twenty-Nine Lakh Ninety-Eight Thousand AND Fifty point Two Four
150	76-120	76-120-10	M.S. Work for reinforcement with deformed 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 deformed 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	25276.150	81.001	Eighty-One point Zero Zero One	2047393.426	Twenty Lakh Forty-Seven Thousand Three Hundred and Ninety-Three point Four Two Six
			Formwork for centering and water tight						

151(a)	36-150	36-150-60	shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 40mmx40mmx6mm 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	636.060	735.351	Seven Hundred and Thirty-Five point Three Five One	467727.357	Four Lakh Sixty-Seven Thousand Seven Hundred and Twenty-Seven point Three Five Seven
151(b)	36-150	36-150-10	Vertical and inclined walls, columns, piers with 60-80mm dia barrack bamboo props.	sqm	691.200	909.691	Nine Hundred and Nine point Six Nine One	628778.419	Six Lakh Twenty-Eight Thousand Seven Hundred and Seventy-Eight point Four One Nine
151(c)	36-150	36-150-20	Deck slab, operating deck slab, top slab of barrel upto 3.5m height with 60-80mm dia barrack bamboo props.	sqm	48.140	921.991	Nine Hundred and Twenty-One point Nine Nine One	44384.647	Forty-Four Thousand Three Hundred and Eighty-Four point Six Four Seven
			Supplying and filling sand in foundation of hydraulic structures, buildings and in						Fourteen

152	16-520	16-520-20	protective works with selected sand, in 150mm thick layer, including levelling, dressing, ramming, watering etc. complete (compacted to 50% relative density by manual labour using mallet/ vibro compactor) as per direction of Engineer in charge. 16-520-20 : sand of FM>=1.50	cum	1044.770	1420.061	One Thousand Four Hundred and Twenty point Zero Six One	1483637.131	Lakh Eighty-Three Thousand Six Hundred and Thirty-Seven point One Three One
153(a)	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:	cum	24.232	3730.471	Three Thousand Seven Hundred and Thirty point Four Seven One	90396.773	Ninety Thousand Three Hundred and Ninety-Six point Seven Seven Three
153(b)	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	24.232	4076.091	Four Thousand AND Seventy-Six point Zero Nine One	98771.837	Ninety-Eight Thousand Seven Hundred and Seventy-One point Eight Three Seven
154	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	each	4627.000	485.001	Four Hundred and Eighty-Five point	2244099.627	Twenty-Two Lakh Forty-Four Thousand AND Ninety

			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. (a) 40-140-50 : block size 30cmx30cmx30cm.				Zero Zero One		Ninety-Nine point Six Two Seven
155	76-170	76-170	MS work in plates, angles, channels, flat bars, Tees etc. including fabricating, machining, cutting, bending, welding, forging, drilling, riveting, embedding anchor bars, staging and fitting fixing, local handling etc. complete with energy consumption and supply of labors including the cost of materials as per design, specification and direction of Engineer in charge	kg	2071.470	175.001	One Hundred and Seventy-Five point Zero Zero One	362509.321	Three Lakh Sixty-Two Thousand Five Hundred and Nine point Three Two One
156	72-540	72-540	Epoxy paint 3 coats, of approved colour and specification over a priming coat to gate; hoisting device and embedded metal parts including scraping out rust and old paint with chisel, scraper, steel wire brush and emery paper etc. complete as per direction of Engineer in charge	sqm	26.330	362.701	Three Hundred and Sixty-Two point Seven Zero One	9549.917	Nine Thousand Five Hundred and Forty-Nine point Nine One Seven
157	40-220	40-220-10	"Labour charge for protective works in laying CC blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of	cum	124.970	1145.881	One Thousand One Hundred and Forty-Five point Eight	143200.749	One Lakh Forty-Three Thousand Two Hundred point

			Engineer in charge. 40-220-10 : Within 200 m."				Eight One		Seven Four Nine
158	16-140	16-140-10	"Earth work by manual labour in resectioning 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 borrowpit 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"	cum	4552.000	187.791	One Hundred and Eighty-Seven point Seven Nine One	854824.632	Eight Lakh Fifty-Four Thousand Eight Hundred and Twenty-Four point Six Three Two
			"Earth work by manual labour in resectioning 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)						

159	16-130	16-130	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 borrowpit 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"	cum	2815.200	142.471	One Hundred and Forty-Two point Four Seven One	401084.359	Four Lakh One Thousand AND Eighty-Four point Three Five Nine
160	16-220	16-220	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	4593.250	142.421	One Hundred and Forty-Two point Four Two One	654175.258	Six Lakh Fifty-Four Thousand One Hundred and Seventy-Five point Two Five Eight
			Manufacturing and supplying of MS flap Gate shutter of 8 mm thick MS skin plate and stiffener with minimum 75 mm x 75 mm x 10 mm MS angle as frame, horizontal and vertical beam 100 mm x 45 mm x						

161	76-250	76-250-10	16 mm P-type rubber seal, fixed with 10 mm dia 63.5 mm MS counter sink and hax, nuts and bolts and 40 mm x 10 mm MS strip as clamp frilled spaces @ 150 mm c/c hinge assy with gate and wall bracket, link arm of 19 mm thick MS plate, 4 nos 24 mm dia x 150 mm stainless steel hinge pin with proper thread, nut, cotter pin and washer as per approved design including the cost of all materials of proper grade and brand new with a prime coat of redoxide where necessary as per specification and direction of Engineer in charge.76-250-10: Size 1.00 m x 1.00 m	each	4.000	59678.511	Fifty-Nine Thousand Six Hundred and Seventy-Eight point Five One One	238714.044	Two Lakh Thirty-Eight Thousand Seven Hundred and Fourteen point Zero Four Four
162	76-260	76-260-10	Labour charge for fitting & fixing of MS 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 Charge76-260-10: Size 1.00 m x 1.00 m or 1.35 m x 1.35 m	each	4.000	8463.381	Eight Thousand Four Hundred and Sixty-Three point Three Eight One	33853.524	Thirty-Three Thousand Eight Hundred and Fifty-Three point Five Two Four

163	16-140	16-140-10	"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	1257.360	187.791	One Hundred and Eighty-Seven point Seven Nine One	236120.892	Two Lakh Thirty-Six Thousand One Hundred and Twenty point Eight Nine Two
164	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 density by compactor or any other suitable method as per direction of Engineer in charge.	cum	1769.380	159.491	One Hundred and Fifty-Nine point Four Nine One	282200.186	Two Lakh Eighty-Two Thousand Two Hundred point One Eight Six
165	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	0.077	60966.401	Sixty Thousand Nine Hundred and Sixty-Six point Four Zero One	4694.413	Four Thousand Six Hundred and Ninety-Four point Four One Three
	48	48	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 x 200mm, with all leads and lifts,				Twenty-Six point		One Lakh Seventy-Seven Thousand Five

166	48-100	48-100	including ramming, watering until the turf grows properly, maintaining etc. complete (measurment will be given on well grown grass only), as per direction of Engineer in charge.	sqm	6784.000	26.171	One Seven One	177544.064	Hundred and Forty-Four point Zero Six Four
							Grand Total:	17484724.545	One Crore Seventy-Four Lakh Eighty-Four Thousand Seven Hundred and Twenty-Four point Five Four Five

This Bill Of Quantity -06-(04 Nos Box Sluice) is Electronically Signed by Mr. Md Ali on behalf of AKA-UCL (JV)

Ashim Singh-M/S Subroto Suttradhar-M/S Pritom Enterprise (JV)
(JVCA)

Bill Of Quantity -06-(04 Nos Box Sluice)

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)
140	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	each	12.000	1203.771	One Thousand Two Hundred and Three point Seven Seven One	14445.252	Fourteen Thousand Four Hundred and Forty-Five point Two Five Two

			the backfill and the cost of all materials as per direction of Engineer in charge.						
141	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	15300.000	27.721	Twenty-Seven point Seven Two One	424131.300	Four Lakh Twenty-Four Thousand One Hundred and Thirty-One point Three
142	16-310	16-310-10	Earth work in excavation of foundation trenches in all kinds of soil as per layout plan of foundation excavation with all leads and lifts and placing the spoil earth for constructing the ring bundh/offerdam where necessary as per design and specification or disposing it to a safe distance including pushing, levelling, dressing, etc. complete as per direction of Engineer in charge. 16-310-10 : For moving spoil earth upto a distance of 100m from the centre of the pit	cum	5358.750	246.711	Two Hundred and Forty-Six point Seven One One	1322062.571	Thirteen Lakh Twenty-Two Thousand AND Sixty-Two point Five Seven One
143	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.	sqm	246.000	837.151	Eight Hundred and Thirty-Seven point One Five One	205939.146	Two Lakh Five Thousand Nine Hundred and Thirty-Nine point One Four Six

			16-560-20: By bamboo post of 6.0m length, c/c fixed with nails.						Four Six
144	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. 12-310-20 : By pump.	cum	163108.120	6.131	Six point One Three One	1000015.884	Ten Lakh AND Fifteen point Eight Eight Four
145	12-300	12-300	Construction of sump well with dug holes of size 1.80 m x 2.0 m, laying in position the perforated empty diesel/petrol drum sheet of 1.00 m dia to a depth 1.5m having slot area of 1000 sq.cm/sqm, slot dia being 30mm each with supply of necessary shrouding materials comprising of 60% 40mm down graded khoa and 40% coarse sand of FM>=2.50 and placing those around and beneath the drum sheet having thickness of 40cm and 50cm respectively including necessary welding, fitting etc. complete as per direction of Engineer in charge.	each	24.000	17211.171	Seventeen Thousand Two Hundred and Eleven point One Seven One	413068.104	Four Lakh Thirteen Thousand AND Sixty-Eight point One Zero Four
			Supplying and laying single layer						

146	44-220	44-220-10	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 1.0 kg per 6.50 sqm	sqm	336.790	31.221	Thirty-One point Two Two One	10514.921	Ten Thousand Five Hundred and Fourteen point Nine Two One
147	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 down graded stone chips.	Cum	48.100	10954.481	Ten Thousand Nine Hundred and Fifty-Four point Four Eight One	526910.536	Five Lakh Twenty-Six Thousand Nine Hundred and Ten point Five Three Six
148	28-100	28-100-20	Cement concrete work in leanest mix. 1:4:8, 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. 28-100-20 : With 25mm down graded stone chips	cum	3.451	10601.191	Ten Thousand Six Hundred and One point One Nine One	36584.710	Thirty-Six Thousand Five Hundred and Eighty-Four point Seven One

149	28-200	28-200-10	Reinforced cement concrete work in leanest mix. 1:1.5:3, with 20mm down graded 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, washing aggregates with clean 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	239.844	11674.491	Eleven Thousand Six Hundred and Seventy-Four point Four Nine One	2800056.619	Twenty-Eight Lakh AND Fifty-Six point Six One Nine
150	76-120	76-120-10	M.S. Work for reinforcement with deformed 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 deformed 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	25276.150	77.341	Seventy-Seven point Three Four One	1954882.717	Nineteen Lakh Fifty-Four Thousand Eight Hundred and Eighty-Two point Seven One Seven
			Formwork for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 40mmx40mmx6mm						

151(a)	36-150	36-150-60	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	636.060	735.351	Seven Hundred and Thirty-Five point Three Five One	467727.357	Four Lakh Sixty-Seven Thousand Seven Hundred and Twenty-Seven point Three Five Seven
151(b)	36-150	36-150-10	Vertical and inclined walls, columns, piers with 60-80mm dia barrack bamboo props.	sqm	691.200	909.691	Nine Hundred and Nine point Six Nine One	628778.419	Six Lakh Twenty-Eight Thousand Seven Hundred and Seventy-Eight point Four One Nine
151(c)	36-150	36-150-20	Deck slab, operating deck slab, top slab of barrel upto 3.5m height with 60-80mm dia barrack bamboo props.	sqm	48.140	921.991	Nine Hundred and Twenty-One point Nine Nine One	44384.647	Forty-Four Thousand Three Hundred and Eighty-Four point Six Four Seven
152	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	cum	1044.770	1420.061	One Thousand Four Hundred and	1483637.131	Fourteen Lakh Eighty-Three Thousand Six Hundred

	520	20	etc. complete (compacted to 50% relative density by manual labour using mallet/ vibro compactor) as per direction of Engineer in charge. 16-520-20 : sand of FM>=1.50				and Twenty point Zero Six One		and Thirty-Seven point One Three One
153(a)	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:	cum	24.232	3730.471	Three Thousand Seven Hundred and Thirty point Four Seven One	90396.773	Ninety Thousand Three Hundred and Ninety-Six point Seven Seven Three
153(b)	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	24.232	4076.091	Four Thousand AND Seventy-Six point Zero Nine One	98771.837	Ninety-Eight Thousand Seven Hundred and Seventy-One point Eight Three Seven
154	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	each	4627.000	317.011	Three Hundred and Seventeen point Zero One One	1466809.897	Fourteen Lakh Sixty-Six Thousand Eight Hundred and Nine point Eight Nine Seven

			including supply of all materials (steel shutter to be used) as per direction of Engineer in charge. (a) 40-140-50 : block size 30cmx30cmx30cm.						
155	76-170	76-170	MS work in plates, angles, channels, flat bars, Tees etc. including fabricating, machining, cutting, bending, welding, forging, drilling, riveting, embedding anchor bars, staging and fitting fixing, local handling etc. complete with energy consumption and supply of labors including the cost of materials as per design, specification and direction of Engineer in charge	kg	2071.470	144.421	One Hundred and Forty-Four point Four Two One	299163.769	Two Lakh Ninety-Nine Thousand One Hundred and Sixty-Three point Seven Six Nine
156	72-540	72-540	Epoxy paint 3 coats, of approved colour and specification over a priming coat to gate; hoisting device and embedded metal parts including scraping out rust and old paint with chisel, scraper, steel wire brush and emery paper etc. complete as per direction of Engineer in charge	sqm	26.330	362.711	Three Hundred and Sixty-Two point Seven One One	9550.181	Nine Thousand Five Hundred and Fifty point One Eight One
157	40-220	40-220-10	"Labour charge for protective works in laying CC blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of Engineer in charge. 40-220-10 : Within 200 m."	cum	124.970	1145.881	One Thousand One Hundred and Forty-Five point Eight Eight One	143200.749	One Lakh Forty-Three Thousand Two Hundred point Seven Four Nine
			"Earth work by manual labour in						

158	16-140	16-140-10	resectioning 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 borrowpit 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"	cum	4552.000	187.791	One Hundred and Eighty-Seven point Seven Nine One	854824.632	Eight Lakh Fifty-Four Thousand Eight Hundred and Twenty-Four point Six Three Two
			"Earth work by manual labour in resectioning 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				One		Four Lakh One

159	16-130	16-130	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 borrowpit 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"	cum	2815.200	142.471	Hundred and Forty-Two point Four Seven One	401084.359	One Thousand AND Eighty-Four point Three Five Nine
160	16-220	16-220	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	4593.250	142.421	One Hundred and Forty-Two point Four Two One	654175.258	Six Lakh Fifty-Four Thousand One Hundred and Seventy-Five point Two Five Eight
			Manufacturing and supplying of MS flap Gate shutter of 8 mm thick MS skin plate and stiffener with minimum 75 mm x 75 mm x 10 mm MS angle as frame, horizontal and vertical beam 100 mm x 45 mm x 16 mm P-type rubber seal, fixed with 10 mm dia 63.5 mm MS counter sink and hax, nuts and bolts						Two

161	76-250	76-250-10	and 40 mm x 10 mm MS strip as clamp frilled spaces @ 150 mm c/c hinge assy with gate and wall bracket, link arm of 19 mm thick MS plate, 4 nos 24 mm dia x 150 mm stainless steel hinge pin with proper thread, nut, cotter pin and washer as per approved design including the cost of all materials of proper grade and brand new with a prime coat of redoxide where necessary as per specification and direction of Engineer in charge.76-250-10: Size 1.00 m x 1.00 m	each	4.000	59678.511	Fifty-Nine Thousand Six Hundred and Seventy-Eight point Five One One	238714.044	Lakh Thirty-Eight Thousand Seven Hundred and Fourteen point Zero Four Four
162	76-260	76-260-10	Labour charge for fitting & fixing of MS 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 Charge76-260-10: Size 1.00 m x 1.00 m or 1.35 m x 1.35 m	each	4.000	8463.381	Eight Thousand Four Hundred and Sixty-Three point Three Eight One	33853.524	Thirty-Three Thousand Eight Hundred and Fifty-Three point Five Two Four
			"Back filling in hydraulic structures including all leads and lifts in 150mm layer including watering,				Seven		Nine Lakh Fifty-Two

163	16-140	16-140-10	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	1257.360	757.751	Seven Hundred and Fifty-Seven point Seven Five One	952765.797	Thousand Seven Hundred and Sixty-Five point Seven Nine Seven
164	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 density by compactor or any other suitable method as per direction of Engineer in charge.	cum	1769.380	159.491	One Hundred and Fifty-Nine point Four Nine One	282200.186	Two Lakh Eighty-Two Thousand Two Hundred point One Eight Six
165	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	0.077	60966.411	Sixty Thousand Nine Hundred and Sixty-Six point Four One One	4694.414	Four Thousand Six Hundred and Ninety-Four point Four One Four
166	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 x 200mm, with all leads and lifts, including ramming, watering until the turf grows properly, maintaining etc. complete	sqm	6784.000	26.171	Twenty-Six point One Seven One	177544.064	One Lakh Seventy-Seven Thousand Five Hundred and Forty-Four point Zero Six

			(measurment will be given on well grown grass only), as per direction of Engineer in charge.						Four
							Grand Total:	17040888.798	One Crore Seventy Lakh Forty Thousand Eight Hundred and Eighty-Eight point Seven Nine Eight

This Bill Of Quantity -06-(04 Nos Box Sluice) is Electronically Signed by Mr. Ashim on behalf of Ashim Singh-M/S Subroto Suttradhar-M/S Pritom Enterprise (JV)

M/S. BHAWAL CONSTRUCTION

Bill Of Quantity -06-(04 Nos Box Sluice)

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)
140	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	12.000	1500.001	One Thousand Five Hundred point Zero Zero One	18000.012	Eighteen Thousand point Zero One Two
			Site preparation by manually removing						

141	04-180	04-180	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	15300.000	27.721	Twenty-Seven point Seven Two One	424131.300	Four Lakh Twenty-Four Thousand One Hundred and Thirty-One point Three
142	16-310	16-310-10	Earth work in excavation of foundation trenches in all kinds of soil as per layout plan of foundation excavation with all leads and lifts and placing the spoil earth for constructing the ring bundh/offerdam where necessary as per design and specification or disposing it to a safe distance including pushing, levelling, dressing, etc. complete as per direction of Engineer in charge. 16-310-10 : For moving spoil earth upto a distance of 100m from the centre of the pit	cum	5358.750	300.001	Three Hundred point Zero Zero One	1607630.359	Sixteen Lakh Seven Thousand Six Hundred and Thirty point Three Five Nine
143	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, c/c fixed with nails.	sqm	246.000	837.151	Eight Hundred and Thirty-Seven point One Five One	205939.146	Two Lakh Five Thousand Nine Hundred and Thirty-Nine point One Four Six
			Bailing out of water with all leads and lifts by manual labour or pump,						

144	12-310	12-310-20	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. 12-310-20 : By pump.	cum	163108.120	10.001	Ten point Zero Zero One	1631244.308	Sixteen Lakh Thirty-One Thousand Two Hundred and Forty-Four point Three Zero Eight
145	12-300	12-300	Construction of sump well with dug holes of size 1.80 m x 2.0 m, laying in position the perforated empty diesel/petrol drum sheet of 1.00 m dia to a depth 1.5m having slot area of 1000 sq.cm/sqm, slot dia being 30mm each with supply of necessary shrouding materials comprising of 60% 40mm down graded khoa and 40% coarse sand of FM>=2.50 and placing those around and beneath the drum sheet having thickness of 40cm and 50cm respectively including necessary welding, fitting etc. complete as per direction of Engineer in charge.	each	24.000	20000.001	Twenty Thousand point Zero Zero One	480000.024	Four Lakh Eighty Thousand point Zero Two Four
146	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.	sqm	336.790	40.001	Forty point Zero Zero One	13471.937	Thirteen Thousand Four Hundred and Seventy-One point Nine Three

			44-220-10: Weighing minimum 1.0 kg per 6.50 sqm						Three Seven
147	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 down graded stone chips.	Cum	48.100	12000.001	Twelve Thousand point Zero Zero One	577200.048	Five Lakh Seventy-Seven Thousand Two Hundred point Zero Four Eight
148	28-100	28-100-20	Cement concrete work in leanest mix. 1:4:8, 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. 28-100-20 : With 25mm down graded stone chips	cum	3.451	12000.001	Twelve Thousand point Zero Zero One	41412.003	Forty-One Thousand Four Hundred and Twelve point Zero Zero Three
			Reinforced cement concrete work in leanest mix. 1:1.5:3, with 20mm down graded coarse aggregates and sand of FM>2.0 to						

149	28-200	28-200-10	FM<=2.5, to attain a minimum 28 day cylinder strength of 22.0 N/mm², including breaking, screening, grading, washing aggregates with clean 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	239.844	14000.001	Fourteen Thousand point Zero Zero One	3357816.240	Thirty-Three Lakh Fifty-Seven Thousand Eight Hundred and Sixteen point Two Four
150	76-120	76-120-10	M.S. Work for reinforcement with deformed 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 deformed 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	25276.150	77.341	Seventy-Seven point Three Four One	1954882.717	Nineteen Lakh Fifty-Four Thousand Eight Hundred and Eighty-Two point Seven One Seven
			Formwork for centering and water tight shuttering as per drawing with 14 BWG M.S. sheet, fitted and fixed with 40mmx40mmx6mm M.S. angle frame and 25mmx6mm F.I. bar stiffener, with necessary fabrication, welding, making the forms including fitting, fixing of				Seven		Four Lakh Sixty-Seven Thousand

151(a)	36-150	36-150-60	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	636.060	735.351	Hundred and Thirty-Five point Three Five One	467727.357	Thousand Seven Hundred and Twenty-Seven point Three Five Seven
151(b)	36-150	36-150-10	Vertical and inclined walls, columns, piers with 60-80mm dia barrack bamboo props.	sqm	691.200	909.691	Nine Hundred and Nine point Six Nine One	628778.419	Six Lakh Twenty-Eight Thousand Seven Hundred and Seventy-Eight point Four One Nine
151(c)	36-150	36-150-20	Deck slab, operating deck slab, top slab of barrel upto 3.5m height with 60-80mm dia barrack bamboo props.	sqm	48.140	921.991	Nine Hundred and Twenty-One point Nine Nine One	44384.647	Forty-Four Thousand Three Hundred and Eighty-Four point Six Four Seven
152	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 labour using mallet/ vibro compactor) as per direction of Engineer in	cum	1044.770	1420.061	One Thousand Four Hundred and Twenty point Zero Six One	1483637.131	Fourteen Lakh Eighty-Three Thousand Six Hundred and Thirty-Seven point One Three One

			charge. 16-520-20 : sand of FM>=1.50						
153(a)	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:	cum	24.232	3730.471	Three Thousand Seven Hundred and Thirty point Four Seven One	90396.773	Ninety Thousand Three Hundred and Ninety-Six point Seven Seven Three
153(b)	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	24.232	4076.091	Four Thousand AND Seventy-Six point Zero Nine One	98771.837	Ninety-Eight Thousand Seven Hundred and Seventy-One point Eight Three Seven
154	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. (a) 40-140-50 : block size	each	4627.000	317.011	Three Hundred and Seventeen point Zero One One	1466809.897	Fourteen Lakh Sixty-Six Thousand Eight Hundred and Nine point Eight Nine Seven

			30cmx30cmx30cm.						
155	76-170	76-170	MS work in plates, angles, channels, flat bars, Tees etc. including fabricating, machining, cutting, bending, welding, forging, drilling, riveting, embedding anchor bars, staging and fitting fixing, local handling etc. complete with energy consumption and supply of labors including the cost of materials as per design, specification and direction of Engineer in charge	kg	2071.470	144.421	One Hundred and Forty-Four point Four Two One	299163.769	Two Lakh Ninety-Nine Thousand One Hundred and Sixty-Three point Seven Six Nine
156	72-540	72-540	Epoxy paint 3 coats, of approved colour and specification over a priming coat to gate; hoisting device and embedded metal parts including scraping out rust and old paint with chisel, scraper, steel wire brush and emery paper etc. complete as per direction of Engineer in charge	sqm	26.330	362.701	Three Hundred and Sixty-Two point Seven Zero One	9549.917	Nine Thousand Five Hundred and Forty-Nine point Nine One Seven
157	40-220	40-220-10	"Labour charge for protective works in laying CC blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of Engineer in charge. 40-220-10 : Within 200 m."	cum	124.970	1145.881	One Thousand One Hundred and Forty-Five point Eight Eight One	143200.749	One Lakh Forty-Three Thousand Two Hundred point Seven Four Nine
			"Earth work by manual labour in resectioning of embankment/ canal bank/ river slopes/ road/ compound etc. manually compacted by 7.0 kg iron rammer to						

158	16-140	16-140-10	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 borrowpit 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"	cum	4552.000	187.791	One Hundred and Eighty-Seven point Seven Nine One	854824.632	Eight Lakh Fifty-Four Thousand Eight Hundred and Twenty-Four point Six Three Two
159	16-130	16-130	"Earth work by manual labour in resectioning 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,	cum	2815.200	142.471	One Hundred and Forty-Two point Four Seven One	401084.359	Four Lakh One Thousand AND Eighty-Four point Three Five Nine

			benching the side slopes, stripping/ ploughing the base of embankment and borrowpit 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"						
160	16-220	16-220	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	4593.250	142.421	One Hundred and Forty-Two point Four Two One	654175.258	Six Lakh Fifty-Four Thousand One Hundred and Seventy-Five point Two Five Eight
161	76-250	76-250-10	Manufacturing and supplying of MS flap Gate shutter of 8 mm thick MS skin plate and stiffener with minimum 75 mm x 75 mm x 10 mm MS angle as frame, horizontal and vertical beam 100 mm x 45 mm x 16 mm P-type rubber seal, fixed with 10 mm dia 63.5 mm MS counter sink and hax, nuts and bolts and 40 mm x 10 mm MS strip as clamp frilled spaces @ 150 mm c/c hinge assy with gate and wall bracket, link arm of 19 mm thick MS	each	4.000	59678.511	Fifty-Nine Thousand Six Hundred and Seventy-Eight point	238714.044	Two Lakh Thirty-Eight Thousand Seven Hundred and Fourteen

			plate, 4 nos 24 mm dia x 150 mm stainless steel hinge pin with proper thread, nut, cotter pin and washer as per approved design including the cost of all materials of proper grade and brand new with a prime coat of redoxide where necessary as per specification and direction of Engineer in charge.76-250-10: Size 1.00 m x 1.00 m				Five One One		point Zero Four Four
162	76-260	76-260-10	Labour charge for fitting & fixing of MS 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 Charge76-260-10: Size 1.00 m x 1.00 m or 1.35 m x 1.35 m	each	4.000	8463.381	Eight Thousand Four Hundred and Sixty-Three point Three Eight One	33853.524	Thirty-Three Thousand Eight Hundred and Fifty-Three point Five Two Four
163	16-140	16-140-10	"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	cum	1257.360	757.751	Seven Hundred and Fifty-Seven point Seven Five One	952765.797	Nine Lakh Fifty-Two Thousand Seven Hundred and Sixty-Five point Seven Nine

			Engineer in charge. 16-540-20 : Sand of FM>=0.80"						Seven
164	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 density by compactor or any other suitable method as per direction of Engineer in charge.	cum	1769.380	159.491	One Hundred and Fifty-Nine point Four Nine One	282200.186	Two Lakh Eighty-Two Thousand Two Hundred point One Eight Six
165	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	0.077	60966.401	Sixty Thousand Nine Hundred and Sixty-Six point Four Zero One	4694.413	Four Thousand Six Hundred and Ninety-Four point Four One Three
166	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 x 200mm, with all leads and lifts, including ramming, watering until the turf grows properly, maintaining etc. complete (measurment will be given on well grown grass only), as per direction of Engineer in charge.	sqm	6784.000	26.171	Twenty-Six point One Seven One	177544.064	One Lakh Seventy-Seven Thousand Five Hundred and Forty-Four point Zero Six Four
									One Crore

							Grand Total:	18644004.867	Eighty-Six Lakh Forty-Four Thousand AND Four point Eight Six Seven

This Bill Of Quantity -06-(04 Nos Box Sluice) is Electronically Signed by Mr. FAKHAR UDDIN AHMED on behalf of M/S. BHAWAL CONSTRUCTION