Individual Report

Tender/Proposal Detail			
Tender/Proposal ID :	126578	**Invitation Reference No. :**	BWDB/HFMLIP/Kish/6313 ,Dated: 11-10-2017
Closing Date and Time :	22-Nov-2017 14:30	**Opening Date and Time :**	22-Nov-2017 14:30
Procuring Entity :	Kishoreganj WD Division		
Brief :	BWDB/Kish/HFMLIP/PW-17 Construction of a Submergible Embankment around Naogaon Haor Part-B in between KM 30.420 to KM 44.200 13.170 KM b Bagadia Khal Rehulator 1-Vent1.50m1.80m at KM 14.52 of Naogaon Haor Part-B c Neora Khal Rehulator 4-Vent1.50m1.80m at KM 44.230 of Naogaon Haor Part-B d 25 nos Irrigation Pipe Inlet at different chainages of Part-A & Part-B and e 5 nos Box Drainage Outlet at different chainages of Part-A and Part-B of Naogaon Haor Sub-Project in c/w Haor Flood Management and Livelihood Improvement Project BWDB Part under Kishoregange WD Division BWDB Kishoregonj during the FY2016-17 & FY2017-18. Special Instructions: 01. Tenderers should visit the working site before submission of tender. 02. RDPP is in approval process,Notification of Award (NOA) will be issued after approval of RDPP. 03. No claim what so ever will be entertained if NOA is not issued. 04. The work of the packages may be totally dropped, decrease or increase as per field condition/design/budget allocation for which no claim shall be entertained. 05. According to PPA 2006 Act 7(3) (Amendment) The Tenders having quoted the offer in percentage is more than 10%(ten percent) above or less than 10%(ten percent) less of the official estimated cost will be rejected. 06. In case of credit line certificate, it should be in Letter of Commitment for Bank's under taking for Line of Credit(Form PW3-7) that attached in section -8. No alteration is allowed, in failing, tender may not be accepted. In case of Bank Statement, the amount of minimum balance shall remain constant of Tk. 275.00 Lakhs during the evaluation period. During verification, required amount of Liquid Asset if not found available in Tenderer mentioned account, then the submitted bank statement will not be considered in the evaluation. For the winner bidder, this amount shall have to be used as a working capital for this package.		

Package No	Package Description
BWDB/Kish/HFMLIP/PW-17	Construction of a Submergible Embankment around Naogaon Haor Part-B in between KM 30.420 to KM 44.200 13.170 KM b Bagadia Khal Rehulator 1-Vent1.50m1.80m at KM 14.52 of Naogaon Haor Part-B c Neora Khal Rehulator 4-Vent1.50m1.80m at KM 44.230 of Naogaon Haor Part-B d 25 nos Irrigation Pipe Inlet at different chainages of Part-A & Part-B and e 5 nos Box Drainage Outlet at different chainages of Part-A and Part-B of Naogaon Haor Sub-Project in c/w Haor Flood Management and Livelihood Improvement Project BWDB Part under Kishoregange WD Division BWDB Kishoregonj during the FY2016-17 & FY2017-18.

AKA-UCL (JV)
(JVCA)

Bill of Quantities-04 (Neora khal Regulator 4-Vent)

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)
			Construction of B.M. pillar at site						

80	04-120	04-120	first class bricks in cement mortar (1:4) of size 36cm x 38cm x 75cm of cement concrete (1:2:4) base size 50cm x 50cm x 75cm with 12mm thick cement plastering (1:2) in exposed surface of pillar and cement mortar on top (1:2) with in ascription of ? BWDB? with 25cm of the pillar below ground level etc. complete including ramming the backfilling and the cost of all materials as per direction of Engineer in charge	No	7.000	1203.662	One Thousand Two Hundred and Three point Six Six Two	8425.634	Eight Thousand Four Hundred and Twenty-Five point Six Three Four
81	04-180	04-180	Site preparation by manually removing all miscellaneous objectional materials from entire site and removing soil upto 15cm depth including uprooting stumps, jungle, cleaning, levelling, dressing etc. complete as per direction of Engineer in charge	sqm	6750.000	27.718	Twenty-Seven point Seven One Eight	187096.500	One Lakh Eighty-Seven Thousand AND Ninety-Six point Five
82	04-620	04-620-20	Filling of expansion joints up to a depth 40mm with bitumen mixed with coarse sand (FM>= 2.5) in concrete woks including supply of all materials etc. as per specification and direction of Engineer in charge. 20mm wide.	sqm	29.600	69.534	Sixty-Nine point Five Three Four	2058.206	Two Thousand AND Fifty-Eight point Two Zero Six
			Installation of pizeometer including supply of 40mm G.I, pipe, brass				Two Thousand		

83	12-100	12-100	strainer, socket, labor, by wash boring, lowering, fixing the elevation and providing cover of the top of the well etc, complete as par direction of Engineer in charge.	each	6.000	2583.987	Thousand Five Hundred and Eighty-Three point Nine Eight Seven	15503.922	Fifteen Thousand Five Hundred and Three point Nine Two Two
84	40-440	40-440-20	Supplying and filling empty gunny or synthetic bags as approved design & drawing with sand. Earth available at site sewing the end with sutly including carrying and placing in position within the site with supply of all materials as per direction of Engineer in charge.	nos	1250.000	32.507	Thirty-Two point Five Zero Seven	40633.750	Forty Thousand Six Hundred and Thirty-Three point Seven Five
85	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	8010.350	149.987	One Hundred and Forty-Nine point Nine Eight Seven	1201448.365	Twelve Lakh One Thousand Four Hundred and Forty-Eight point Three Six Five
			By Local hard wood ballah post 6.00 m length,						Four Lakh

86	16-560	16-560-30	125mm dia, 1m c/c and 2.00m drive with 6.0m long bamboo of average 75mm @ 1.00m c/c and average 70mm dia half split bamboo batten @ 2.00m c/c fixed with nails.	sqm	447.200	913.608	Nine Hundred and Thirteen point Six Zero Eight	408565.498	Four Lakh Eight Thousand Five Hundred and Sixty-Five point Four Nine Eight
87	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 By pump.	cum	114188.620	6.129	Six point One Two Nine	699862.052	Six Lakh Ninety-Nine Thousand Eight Hundred and Sixty-Two point Zero Five Two
88	44-240	44-240-30	Supplying at site U-shape hot rolled steel sheet piles of different sections as mentioned in the material specification of this manual as tabular form of Phosphorus = 00.04% (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 Engineer in charge. U-shape, hot-rolled steel sheet pile width=	mt	22.270	299972.999	Two Lakh Ninety-Nine Thousand Nine Hundred and Seventy-Two point Nine Nine Nine	6680398.688	Sixty-Six Lakh Eighty Thousand Three Hundred and Ninety-Eight point Six Eight Eight

			400mm to 600mm: height=>100mm, Th.=> 10.5: wt. per sqm of pile wall =>120 kg/m2: sectional modulus per one meter of pile wall width => 874 cm3/m.						
89	44-320	44-320-20	Cutting of steel sheet piles to design length and shape as per requirement in design and drawing and as per direction of Engineer in charge. Above 10mm thick.	m	126.210	39.156	Thirty-Nine point One Five Six	4941.879	Four Thousand Nine Hundred and Forty-One point Eight Seven Nine
90	12-300	12-300	Construction of sump well with dug holes of size 1.80m x 2.00m, laying in position the perforated empty diesel/ petrol drum sheet of 1.00m dia to a depth 1.50m 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	6.000	17209.621	Seventeen Thousand Two Hundred and Nine point Six Two One	103257.726	One Lakh Three Thousand Two Hundred and Fifty-Seven point Seven Two Six
			Driving steel sheet piles of various sections and weights of any type of soil, by monkey						

91	44-270	44-270-20	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 defects 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 4.50 m depth	sqm	169.360	1499.865	One Thousand Four Hundred and Ninety-Nine point Eight Six Five	254017.136	Two Lakh Fifty-Four Thousand AND Seventeen point One Three Six
92	72-540	72-540	Epoxy paint 2 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 & emery paper etc. complete in all respect including the cost of all materials as per direction of Engineer in charge.	sqm	144.870	362.667	Three Hundred and Sixty-Two point Six Six Seven	52539.568	Fifty-Two Thousand Five Hundred and Thirty-Nine point Five Six Eight
93	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	59.160	461.758	Four Hundred and Sixty-One point Seven Five Eight	27317.603	Twenty-Seven Thousand Three Hundred and Seventeen point Six Zero Three
			Supplying and laying single layer polythene sheet in floor below						Thirteen Thousand

94	44-220	44-220-10	cement concrete, RCC slab, on walls etc. complete in all respect as per direction of Engineer in charge Weighing minimum 1.0 Kg. per 6.50 sqm.	sqm	447.690	31.217	Thirty-One point Two One Seven	13975.539	Thousand Nine Hundred and Seventy-Five point Five Three Nine
95	28-100	28-100	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 form works etc. complete as per direction of Engineer in charge.	cum	2.560	11998.919	Eleven Thousand Nine Hundred and Ninety-Eight point Nine One Nine	30717.233	Thirty Thousand Seven Hundred and Seventeen point Two Three Three
96	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 form works etc. complete as per direction of Engineer in charge. With 25mm down graded stone chips.	cum	59.640	11998.919	Eleven Thousand Nine Hundred and Ninety-Eight point Nine One Nine	715615.529	Seven Lakh Fifteen Thousand Six Hundred and Fifteen point Five Two Nine
			Supplying bamboo pegs 0.45m to 0.75m long and average				Twenty-Seven		Four Thousand Four

97	04-320	04-320	dia 6cm, with saw cut top as per terms & condition of the Engineer in charge.	each	160.000	27.827	Seven point Eight Two Seven	4452.320	Hundred and Fifty-Two point Three Two
98	04-330	04-330	Labour charge for fixing the bamboo pegs 0.45 to 0.7i5 long and average dia 6cm complete as per direction of Engineer in charge.	each	160.000	2.829	Two point Eight Two Nine	452.640	Four Hundred and Fifty-Two point Six Four
99	76-120	76-120-10	M.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 blinding with 22 to 18 gages G.I. wire etc complete including the cost of all materials as per direction of Engineer in charge 8mm dia to 30mm dia	kg	32245.470	84.992	Eighty-Four point Nine Nine Two	2740606.986	Twenty-Seven Lakh Forty Thousand Six Hundred and Six point Nine Eight Six
100	76-115	76-115-10	M.S. Work for reinforcement with deformed M.S. bar, fy=276 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 blinding 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	kg	105.300	84.992	Eighty-Four point Nine Nine Two	8949.658	Eight Thousand Nine Hundred and Forty-Nine point Six Five Eight

			dia						
101	28-200	28-200-10	Reinforced Cement concrete work in leanest mix 1:1.5:3 with 20mm down graded coarse aggregate and sand of FM >= 2.0 to FM<= 2.5, to attain a minimum 28 days 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 the cost of M.S. work for reinforcements and formworks etc. Complete as per direction of Engineer in charge. 28-200-10:With stone chips	cum	354.810	14998.649	Fourteen Thousand Nine Hundred and Ninety-Eight point Six Four Nine	5321670.652	Fifty-Three Lakh Twenty-One Thousand Six Hundred and Seventy point Six Five Two
102(a)	36-150	36-150-60	Form work for centering and water tight shuttering as per drawing with 24 BWG M.S sheet, fitted fixed with 40mm x 40mm x 6mm), M.S. angle frame and 25mm x 6mm F.I. bar stiffener, with necessary fabrication, welding, making the forms including fitting, fixing of steel forms with necessary ties, battens struts nuts and bolts, props etc. as per desired shape and size including leveling and removing the forms after specified period	sqm	356.880	735.284	Seven Hundred and Thirty-Five point Two Eight Four	262408.154	Two Lakh Sixty-Two Thousand Four Hundred and Eight point One Five Four

			including the cost of all materials as per direction of Engineer in charge 36-150-60: Footing , footing beams, girder beams, foundation slab with 60-80 mm dia barrack bamboo props.						
102(b)	36-150	36-150-10	Vertical and inclined walls, columns, piers with 60-80mm dia barrack bamboo props.	sqm	777.530	849.924	Eight Hundred and Forty-Nine point Nine Two Four	660841.408	Six Lakh Sixty Thousand Eight Hundred and Forty-One point Four Zero Eight
102(c)	36-150	36-150-20	Deck slab, operating deck slab, top slab of barrel up to 3.50m of height with 60-80 dia barrack bamboo props.	sqm	116.730	921.907	Nine Hundred and Twenty-One point Nine Zero Seven	107614.204	One Lakh Seven Thousand Six Hundred and Fourteen point Two Zero Four
103	76-630	76-630-10	Supplying and fitting and fixing 23cm wide P.V.C. water stop having minimum strength of 13.80 N/mm2 at 225% elongation and of approved quality in contraction and expansion joints with necessary arrangements fro modification in shuttering and keeping the water stop in position and direction of Engineer in charge. 3 Bulb type	m	29.900	1133.648	One Thousand One Hundred and Thirty-Three point Six Four Eight	33896.075	Thirty-Three Thousand Eight Hundred and Ninety-Six point Zero Seven Five
104(a)	40-650	40-650-30	Supplying and laying sand filter layers as per specification size, range and gradation, including preparation of surface, compacting in layer etc, complete with supply of all	cum	33.720	1070.194	One Thousand AND Seventy point One Nine Four	36086.942	Thirty-Six Thousand AND Eighty-Six point Nine Four Two

			materials and as per direction of Engineer in charge. F.M. : 1.00 to 1.50.						
104(b)	40-650	40-650-20	F.M. : 1.50 to 2.00.	cum	10.070	1575.238	One Thousand Five Hundred and Seventy-Five point Two Three Eight	15862.647	Fifteen Thousand Eight Hundred and Sixty-Two point Six Four Seven
105	16-520	16-520-20	Supplying and filling sand in foundation of hydraulic structure, buildings and in protective works with selected sand in 150mm thick layer, including leveling, dressing, ramming, watering etc complete (compacted to 50% relative density by manual labour using mallet/ vibro compactor) as per direction of Engineer in charge. Sand of FM >= 1.50	cum	147.350	1419.932	One Thousand Four Hundred and Nineteen point Nine Three Two	209226.980	Two Lakh Nine Thousand Two Hundred and Twenty-Six point Nine Eight
106(a)	40-610	40-610-20	Supplying and laying dry 1st class tick jhama brick chips as jilter in two layers (top and bottom) as per specification size, range and gradation, including breaking chips, grading preparation of surface, compacting each layer etc, with supply of all materials and as per direction of Engineer in charge. Well graded between 40mm to 20mm size.	cum	91.140	3730.134	Three Thousand Seven Hundred and Thirty point One Three Four	339964.413	Three Lakh Thirty-Nine Thousand Nine Hundred and Sixty-Four point Four One Three

106(b)	40-610	40-610-30	Well graded between 20mm to5mm size. (Combination of sub item 10 & 30 or 20 & 30 shall be used.	cum	91.140	4075.723	Four Thousand AND Seventy-Five point Seven Two Three	371461.394	Three Lakh Seventy-One Thousand Four Hundred and Sixty-One point Three Nine Four
107(a)	40-140	40-140-50	Manufacturing and supplying C.C. blocks in leanest mix 1:3:6 with cement and sand (FM>=1.5) and 1st class or picked jhama brick chips (25mm down graded), to attain a minimum 28 day strength of 9.00 N/mm2 including breaking, screening, grading, washing chip, 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. Block Size 30cm X 30cm X 30cm.	each	10878.000	349.969	Three Hundred and Forty-Nine point Nine Six Nine	3806962.782	Thirty-Eight Lakh Six Thousand Nine Hundred and Sixty-Two point Seven Eight Two
107(b)	40-140	40-140-40	Block Size 40cm X 40cm X 20cm.	each	5276.000	399.964	Three Hundred and Ninety-Nine point Nine Six Four	2110210.064	Twenty-One Lakh Ten Thousand Two Hundred and Ten point Zero Six Four
	40	40-	Lobour charge for protective work in laying C.C blocks of different sizes including preparation of				One Thousand One Hundred		Two Lakh Sixty-Four Thousand Nine Hundred

108(a)	40-220	220-10	preparation of base, ramming of base etc. complete as per direction of the Engineer in charge Within 200m.	cum	231.260	1145.777	and Forty-Five point Seven Seven Seven	264972.389	Hundred and Seventy-Two point Three Eight Nine
108(b)	40-220	40-220-20	Beyond 200m	cum	231.260	2026.858	Two Thousand AND Twenty-Six point Eight Five Eight	468731.181	Four Lakh Sixty-Eight Thousand Seven Hundred and Thirty-One point One Eight One
109	76-170	76-170	M.S. work in plates, angles, channels, flat bars, Tees etc. including fabricating, machining, cuttings, 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 all materials as per design, specification and direction of Engineer in charge.	kg	7571.720	124.989	One Hundred and Twenty-Four point Nine Eight Nine	946381.711	Nine Lakh Forty-Six Thousand Three Hundred and Eighty-One point Seven One One
110	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 mending the damages, fixing in walls with holders	m	4.500	232.909	Two Hundred and Thirty-Two point Nine Zero Nine	1048.091	One Thousand AND Forty-Eight point Zero Nine One

			and clips, including cutting threads, making necessary connection etc. all complete, and as per direction of Engineer in charge. 40mm dia G.I. pipe line.						
111	80-260	80-260-20	Supplying, fitting and fixing of the different dia G.I. water distribution pipe line, with all special fittings such as bends, elbows, reducing sockets, tees, unions etc. including cutting trench up to average depth of 0.90m, maintaining proper level, cutting pipes where necessary, making threads etc. all complete. floors as per direction of Engineer in charge. 50mm dia G.I pipe.	m	18.800	338.989	Three Hundred and Thirty-Eight point Nine Eight Nine	6372.993	Six Thousand Three Hundred and Seventy-Two point Nine Nine Three
112	76-240	76-240-40	Manufacturing and supplying of M.S. Vertical lift gate shutter of 8mm thick M.S. plate and stiffener with minimum 75mm x 10mm M.S. angle as frame, horizontal & vertical beam, 75mm x 25mm x 12mm p-type rubber seal, fixed with 10mm dia x 63.5mm M.S. counter shank bolts with nuts and 40mm x 10mm M.S. strip as clamp drilled spaces @ 150mm c/c, stem attachment with proper thread, nut cotter pin and washer as per approved design	each	8.000	96790.918	Ninety-Six Thousand Seven Hundred and Ninety point Nine One Eight	774327.344	Seven Lakh Seventy-Four Thousand Three Hundred and Twenty-Seven point Three Four Four

			including the cost of all materials of proper grade & brand new prime coat of red oxide where necessary as specification and direction of the Engineer in charge. Size 1.95m x 1.65m.						
113	76-260	76-260-20	Labour charge for fitting fixing of M.S. vertical lift/ flap gate shutter 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 and as per direction of the Engineer in charge. Size 1.95m X 1.35m or 1.95m X 1.65m.	each	8.000	9991.011	Nine Thousand Nine Hundred and Ninety-One point Zero One One	79928.088	Seventy-Nine Thousand Nine Hundred and Twenty-Eight point Zero Eight Eight
114	76-190	76-190	Manufacturing and supplying and installation of pedestal type lifting devise for slide gate with 63mm dia, threaded steel shaft, 146mm outer dia bronze nut, thrust bring steel bevel gear etc, as per approved desing including supply of all components, labors with prime coat of red oxide where necessary etc. complete including the cost of all materials as	each	8.000	84128.278	Eighty-Four Thousand One Hundred and Twenty-Eight point Two Seven Eight	673026.224	Six Lakh Seventy-Three Thousand AND Twenty-Six point Two Two Four

			per specification and direction of the Engineer in charge.						
115	68-130	68-130	Supplying wooden flap gates with pressure treated fall boards/ stop logs of different sizes (not less than 15cm in depth) of Sal, Sundry, garjan Shishu of equivalent timber for regulator/ sluices, including fixing in position with eye hook etc. complete as per direction of Engineer in charge	cum	6.890	60960.913	Sixty Thousand Nine Hundred and Sixty point Nine One Three	420020.691	Four Lakh Twenty Thousand AND Twenty point Six Nine One
116	16-140	16-140-10	Earth work by manual labor in resection of embankment/ canal bank / river slopes/ road/ compound etc. manually compacted by 7.0 kg iron rammer to abode 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 100mm, removing roots & stumps of trees of girth unto 200mm from the ground, benching the side slopes, stripping/ sloughing the bees of embankment and borrow pit areas, dug bailing, bail out of water, rough dressing including 150mm cambering at the center of the crest (where	cum	7112.000	169.985	One Hundred and Sixty-Nine point Nine Eight Five	1208933.320	Twelve Lakh Eight Thousand Nine Hundred and Thirty-Three point Three Two

			necessary) etc. complete as per direction of Engineer in charge. 0 to 3m height.						
117	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	10120.500	142.457	One Hundred and Forty-Two point Four Five Seven	1441736.068	Fourteen Lakh Forty-One Thousand Seven Hundred and Thirty-Six point Zero Six Eight
118	16-190	16-190	Extra rate for every additional lead of 15m or part here of beyond the initial lead of 30m up to a maximum of 19 leads (3m neglected) for all kinds of earth work. (One No Lead)	pld/cum	4978.400	19.998	Nineteen point Nine Nine Eight	99558.043	Ninety-Nine Thousand Five Hundred and Fifty-Eight point Zero Four Three
119	16-200	16-200	Extra rate for every additional lift of 1.0m or part thereof beyond the initial lift of 1.50m (30cm neglected for all kinds of earth work. (One No. Lift)	plt/cum	5060.250	10.989	Ten point Nine Eight Nine	55607.087	Fifty-Five Thousand Six Hundred and Seven point Zero Eight Seven
120	16-300	16-300	Royalty of specified earth taken from private land (with permission of the Executive Engineer on production of royalty deeds with the land owner) from the area to be selected by the contractor with	cum	4934.260	4.999	Four point Nine Nine Nine	24666.366	Twenty-Four Thousand Six Hundred and Sixty-Six point Three Six Six

			mutual agreement.						
121	04-280	04-280-10	Construction 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 150mm X 25mm	m	6.400	77.723	Seventy-Seven point Seven Two Three	497.427	Four Hundred and Ninety-Seven point Four Two Seven
122	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-do-as per direction of Engineer in charge	cum	2177.740	142.457	One Hundred and Forty-Two point Four Five Seven	310234.307	Three Lakh Ten Thousand Two Hundred and Thirty-Four point Three Zero Seven
123	16-540	16-540-20	Back filling of hydraulic structure including all leads and lifts in 150mm layer including watering, ramming, compaction to 30% relative density etc. complete by compactor or any other suitable method as per direction of Engineer in charge. Sand of Fm >0.80	cum	625.760	757.682	Seven Hundred and Fifty-Seven point Six Eight Two	474127.088	Four Lakh Seventy-Four Thousand One Hundred and Twenty-Seven point Zero Eight Eight
124	16-530	16-530	Back filling of hydraulic structure and slop building in protective work including all leads and lifts with selected local soil in layer if 150mm including, watering, ramming etc	cum	5784.570	154.986	One Hundred and Fifty-Four point Nine Eight	896527.366	Eight Lakh Ninety-Six Thousand Five Hundred and Twenty

			complete compacted to 20% relative density by compactor or any other suitable method as per direction of Engineer in char.				Nine Eight Six		Twenty-Seven point Three Six Six
125	48-100	48-100	Fine dressing and close turfing of the slope and the crest of embankment with 75mm thick good quality durba or charkanta sods of size 200mm x 200mm with all leads and lifts-do-do- etc. complete as per direction of Engineer in charge .	sqm	4220.000	9.999	Nine point Nine Nine Nine	42195.780	Forty-Two Thousand One Hundred and Ninety-Five point Seven Eight
			Supplying and placing non-woven needle punched type geotextile fabric (100% polypropylene fabric, unit weight 855kg/m3 to 946 kg/m3) as filter materials of elongation at maximum force machine direction (MD) =>60% and <=100%, elongatio at maqximum force (CMD) =>40% and <=100% horizontal and vertical permeability (under 2 kn/m2 pressure) =>2 x 10E-3 m/sec.for efective erosion protection in hydraulic structures/river training works including local handling, placing in position, providing machine seamed joints (with 100% polypropylene or nylon thread) or 35cm lap in dry condition or				One Hundred		Two Lakh Four

126	40-600	40-600-20	minimum 100cm lap under water including protecting the geotextile material from UV ray and from any other damages including supply of all materials, labors, equipment's etc. complete as per direction of Engineer in charge(Geotextile delivered at site should be certified by ISO and clearly labelled with brand name and grade printed at regular intervals across the body of the fabric) Thickness =>2.00mm, CBR puncture resistance => 2100 N Effective opening size <= 0.11mm, horizontal permeability => 4x10E-3m/sec, Vertical permeability => 6x10E-4m/sec, grab tensile strength => 760 N strip tensile strength => 13.00 KN/m.	sqm	1052.240	190.453	Hundred and Ninety point Four Five Three	200402.265	Four Hundred and Two point Two Six Five
							Grand Total:	34866335.976	Three Crore Forty-Eight Lakh Sixty-Six Thousand Three Hundred and Thirty-Five point Nine Seven Six

This Bill of Quantities-04 (Neora khal Regulator 4-Vent) is Electronically Signed by Mr. Md Ali on behalf of AKA-UCL (JV)