

Individual Report

Tender/Proposal Detail

Tender/Proposal ID :	233924	Invitation Reference No. :	465 date- 09/10/2018
Closing Date and Time :	15-Nov-2018 13:00	Opening Date and Time :	15-Nov-2018 13:00
Procuring Entity :	Habiganj O&M Division		
Brief :	<p>Re-sectioning of Sub-mersible embankment along the left bank of kushiyara river in between km 0.00 to km 26.00 length 7.23 km Construction of new retired embankment in between km0.00 to km 26.50 length 6.894km Re-excavation of Kairdhala khal from km 0.00 to km 1.6950 1.6950 km under Kairdhala ratna sub-project & Re-sectioning of Sub-mersible embankment along the right bank of khowai river from km 0.00 to km 16.020 16.020km Construction of new embankment from km 22.850 to km 31.210 8.360km Re-excavation of Satomukha khal from km 0.000 to km 1.7901.790km Re-excavation of Singair beel khal from km 0.000 to km 2.7202.720km under Aralia Khal Sub-project in C/W Haor Flood Management and Livelihood Improvement Project BWDB Part in Upazila- Ajmiriganj & Baniyachong District- Habiganj under Habiganj O&M Division BWDB Habiganj during the year 2018-19 & 2019-20 ./Package No BWDB/Hobi/HFMLIP/PW-02</p>		

Package No	Package Description
BWDB/Hobi/HFMLIP/PW-02	<p>Re-sectioning of Sub-mersible embankment along the left bank of kushiyara river in between km 0.00 to km 26.00 length 7.23 km Construction of new retired embankment in between km0.00 to km 26.50 length 6.894km Re-excavation of Kairdhala khal from km 0.00 to km 1.6950 1.6950 km under Kairdhala ratna sub-project & Re-sectioning of Sub-mersible embankment along the right bank of khowai river from km 0.00 to km 16.020 16.020km Construction of new embankment from km 22.850 to km 31.210 8.360km Re-excavation of Satomukha khal from km 0.000 to km 1.7901.790km Re-excavation of Singair beel khal from km 0.000 to km 2.7202.720km under Aralia Khal Sub-project in C/W Haor Flood Management and Livelihood Improvement Project BWDB Part in Upazila- Ajmiriganj & Baniyachong District- Habiganj under Habiganj O&M Division BWDB Habiganj during the year 2018-19 & 2019-20 ./Package No BWDB/Hobi/HFMLIP/PW-02</p>

HU-AS(JV) (JVCA)

Bill of Quantities: Part A

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)
A.1	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 x50cm x7.5cm with 12mm thick cement plastering (1:2) on exposed surfaces of pillar and cement mortar on top (1:2), with inscription	each	39.000	1308.571	One Thousand Three Hundred and Eight point Five Seven	51034.269	Fifty-One Thousand AND Thirty-Four point Two Six

			of ?BWDB? with 25cm of the pillar below ground level etc. complete including ramming the backfill and the cost of all materials as per direction of Engineer in charge.				Seven One		Nine
A.2	16-100	16-100	Erection of bamboo profiles with full bamboo posts and pegs not less than 16mm in dia and coir string etc. complete as per direction of Engineer in charge.	each	642.000	77.881	Seventy-Seven point Eight Eight One	49999.602	Forty-Nine Thousand Nine Hundred and Ninety-Nine point Six Zero Two
A.3	16-650	16-650-10	Earth work by Mechanical Excavator (Long Boon) in constructing/ resectioning of embankment/canal bank/ road etc. compacted to 85%/90% maximum dry density at optimum moisture content, with reference to laboratory density test AAHSTO modified hammer, with clayey soil(minm 30% clay, 0-40% silt, 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profiles in layers not exceeding 230mm in thickness with clod breaking to a maximum size of 100mm, benching the side slopes, removing roots and stumps of trees of girth upto 200mm from the ground, stripping/ploughing the base of embankment and borrow pit area, dug bailing, rough dressing including 150mm cambering at the centre of crest etc. complete, including maintenance of the same for 6 months after completion, (compaction will be done by the contractor with approved equipment, including all ancillary	cum	327182.720	217.651	Two Hundred and Seventeen point Six Five One	71211646.191	Seven Crore Twelve Lakh Eleven Thousand Six Hundred and Forty-Six point One Nine One

			charges for compaction and testing) as per direction of Engineer in charge. Embankment by Mech. Equipment; ht: 0 to 4m; 85% comp.						
A.4	16-410	16-410-10	Earth work by carried earth (by truck/boat or any other means) supplied at contractor's own cost (including royalty) in constructing/ resectioning of the embankment/ canal bank/ road etc. compacted to 85%/90% maximum dry density at optimum moisture content with reference to laboratory density test AASHTO modified hammer, with clayey soil (minimum 30% clay, 0-40% silt and 0-30% sand) beyond initial lead of 300m including throwing the spoils to profiles in layer not exceeding 230mm in thickness with clod breaking to maximum size of 100mm, benching the side slopes, removing roots and stumps of trees of girth upto 200mm, stripping/ ploughing the base of embankment and borrow pit area, dug bailing, clearing jungles, bail out of water, rough dressing including 150mm cambering at the centre of crest with all leads and lifts complete (compaction will be done by the contractor with approved equipment including all ancillary charges for compaction and testing) as per direction of Engineer in charge. 300m to 1.00 km.(85% compaction)	cum	40897.840	130.001	One Hundred and Thirty point Zero Zero One	5316760.098	Fifty-Three Lakh Sixteen Thousand Seven Hundred and Sixty point Zero Nine Eight
			Earth work by manual labour in constructing/ resectioning of						

A.5	16-120	16-120-10	<p>embankment/ canal bank/ road etc. compacted to 85%/90% maximum dry density at optimum moisture content, with reference to laboratory density test AAHSTO modified hammer, with clayey soil(minm 30% clay, 0-40% silt, 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profiles in layers not exceeding 230mm in thickness with clod breaking to a maximum size of 100mm, benching the side slopes, removing roots and stumps of trees of girth upto 200mm from the ground, stripping/ ploughing the base of embankment and borrow pit area, dug bailing, bail out of water, rough dressing including 150mm cambering at the centre of crest etc. complete, including maintenance of the same for 6 months after completion, (compaction will be done by the contractor with approved equipment, including all ancillary charges for compaction and testing) as per direction of Engineer in charge</p> <p>0 m to 3 m height with 85% compaction.</p>	cum	40897.840	214.001	Two Hundred and Fourteen point Zero Zero One	8752178.658	Eighty-Seven Lakh Fifty-Two Thousand One Hundred and Seventy-Eight point Six Five Eight
A.6	16-190	16-190	<p>Extra rate for every additional lead of 15m or part thereof beyond the initial lead of 30m upto a maximum of 19 leads (30m neglected) for all kinds of earth work. (1 nos lead.)</p>	cum	40897.840	12.501	Twelve point Five Zero One	511263.898	Five Lakh Eleven Thousand Two Hundred and Sixty-Three point Eight Nine Eight
			<p>Fine dressing & close turfing of the slope and the crest of embankment with 75mm thick, good quality durba or charkanta sods of</p>						Sixteen Lakh Thirty-One

A.7	48-100	48-100	size 200mm x 200mm, 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	649874.400	2.511	Two point Five One One	1631834.618	One Thousand Eight Hundred and Thirty-Four point Six One Eight
A.8	16-300	16-300	Royalty of specified earth taken from private land (with prior permission of the Executive Engineer on production of royalty deeds with the land owner) from the area to be selected by the contractor with mutual agreement.	cum	368080.560	5.576	Five point Five Seven Six	2052417.203	Twenty Lakh Fifty-Two Thousand Four Hundred and Seventeen point Two Zero Three
A.9	40492	40492-20	"[Dumping with Boat & Total Station] Supplying, filling and dumping of geo-textile bags of different sizes and capacity at project/work site, making with standard geo-textile fabric (100% Polypropylene fabric, mass>= 400gm/m², unit weight : 855 Kg/m³ to 946 Kg/m³, EOS<=0.07 mm) and sewing in accordance with the drawing and Technical Specifications of BWDB and Schedule of Rates of BWDB, protecting the geotextile bags from UV ray or any other damages, filling with sand (dry and minimum 95% sand must be retained on sieve no 200), sewing along one transverse (top) side after filling, staking in measurable/countable stakes, marking by synthetic enamel paint during counting, dumping from properly positioned and anchored flat top engine boat over an area as per drawing, maintaining & recording the position of dumping boat using	no	17183.000	400.001	Four Hundred point Zero Zero One	6873217.183	Sixty-Eight Lakh Seventy-Three Thousand Two Hundred and Seventeen point One Eight Three

			total station including loading, unloading, sequential piling of geo-bags on the dumping edge of boat, carrying geo-bags from stake-yard to dumping place by head load and power driven flat top country boat, cost of all materials & equipments and its mobilization, labour, incidental charges etc complete as per technical specification, approved design and direction of Engineer in charge. [fill volume and weight will be measured after filling with dry sand]" "Geo-bag; inner size:1075mmx850mm, outer size:1125mmx900mm geo-fabric th.=>3.0mm, Fill Vol: 0.1164cum; wt: 175kg"						
A.10	48-130	48-130	Biological protection of bare earth surface by Dholkalmi with minimum 50cm long sapling, planting @ not more than 30 cm apart including supplying, sizing, taping and nursing etc. complete as per direction of the Engineer in charge.	m	309464.000	0.311	Zero point Three One One	96243.304	Ninety-Six Thousand Two Hundred and Forty-Three point Three Zero Four
							Grand Total:	96546595.024	Nine Crore Sixty-Five Lakh Forty-Six Thousand Five Hundred and Ninety-Five point Zero Two Four

This Bill of Quantities: Part A is Electronically Signed by Mr. Helal on behalf of HU-AS(JV)

**Md. Anisur Rahman Chowdhury- M/s. Liberty Traders Joint Venture
(JVCA)**

Bill of Quantities: Part A

Bill of Quantities

						Unit	Unit		Total
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Item no.	Group	Item Code (if any)	Description of Item	Measurement Unit	Quantity	Price In figures (BDT)	Unit Price In Words (BDT)	Total Price In Figures (BDT)	Total Price In Words (BDT)
A.1	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 x50cm x7.5cm with 12mm thick cement plastering (1:2) on exposed surfaces of pillar and cement mortar on top (1:2), with inscription of 'BWDB' with 25cm of the pillar below ground level etc. complete including ramming the backfill and the cost of all materials as per direction of Engineer in charge.	each	39.000	1308.571	One Thousand Three Hundred and Eight point Five Seven One	51034.269	Fifty-One Thousand AND Thirty-Four point Two Six Nine
A.2	16-100	16-100	Erection of bamboo profiles with full bamboo posts and pegs not less than 16mm in dia and coir string etc. complete as per direction of Engineer in charge.	each	642.000	324.821	Three Hundred and Twenty-Four point Eight Two One	208535.082	Two Lakh Eight Thousand Five Hundred and Thirty-Five point Zero Eight Two
A.3	16-	16-	Earth work by Mechanical Excavator (Long Boon) in constructing/ resectioning of embankment/canal bank/ road etc. compacted to 85%/90% maximum dry density at optimum moisture content, with reference to laboratory density test AAHSTO modified hammer, with clayey soil(minm 30% clay, 0-40% silt, 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profiles in layers not exceeding 230mm in thickness with clod breaking to a maximum size of 100mm, benching the side slopes, removing roots and stumps of	cum	327182.720	170.001	One Hundred and Seventy	55621380.583	Five Crore Fifty-Six Lakh Twenty-One Thousand

A.3	650	650-10	<p>Roots and stumps of trees of girth upto 200mm from the ground, stripping/ploughing the base of embankment and borrow pit area, dug bailing, rough dressing including 150mm cambering at the centre of crest etc. complete, including maintenance of the same for 6 months after completion, (compaction will be done by the contractor with approved equipment, including all ancillary charges for compaction and testing) as per direction of Engineer in charge. Embankment by Mech. Equipment; ht: 0 to 4m; 85% comp.</p>	cum	327162.720	170.001	Seventy point Zero Zero One	33021369.363	Three Hundred and Eighty-Nine point Five Eight Three
A.4	16-410	16-410-10	<p>Earth work by carried earth (by truck/boat or any other means) supplied at contractor's own cost (including royalty) in constructing/ resectioning of the embankment/ canal bank/ road etc. compacted to 85%/90% maximum dry density at optimum moisture content with reference to laboratory density test AASHTO modified hammer, with clayey soil (minimum 30% clay, 0-40% silt and 0-30% sand) beyond initial lead of 300m including throwing the spoils to profiles in layer not exceeding 230mm in thickness with clod breaking to maximum size of 100mm, benching the side slopes, removing roots and stumps of trees of girth upto 200mm, stripping/ploughing the base of embankment and borrow pit area, dug bailing, clearing jungles, bail out of</p>	cum	40897.840	200.001	Two Hundred point Zero Zero One	8179608.898	Eighty-One Lakh Seventy-Nine Thousand Six Hundred and Eight point Eight Nine Eight

			water, rough dressing including 150mm cambering at the centre of crest with all leads and lifts complete (compaction will be done by the contractor with approved equipment including all ancillary charges for compaction and testing) as per direction of Engineer in charge. 300m to 1.00 km.(85% compaction)						
A.5	16-120	16-120-10	Earth work by manual labour in constructing/ resectioning of embankment/ canal bank/ road etc. compacted to 85%/90% maximum dry density at optimum moisture content, with reference to laboratory density test AAHSTO modified hammer, with clayey soil(minm 30% clay, 0-40% silt, 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profiles in layers not exceeding 230mm in thickness with clod breaking to a maximum size of 100mm, benching the side slopes, removing roots and stumps of trees of girth upto 200mm from the ground, stripping/ ploughing the base of embankment and borrow pit area, dug bailing, bail out of water, rough dressing including 150mm cambering at the centre of crest etc. complete, including maintenance of the same for 6 months after completion, (compaction will be done by the contractor with approved equipment, including all ancillary charges for compaction and testing) as per direction of Engineer	cum	40897.840	183.001	One Hundred and Eighty-Three point Zero One	7484345.618	Seventy-Four Lakh Eighty-Four Thousand Three Hundred and Forty-Five point Six One Eight

			in charge 0 m to 3 m height with 85% compaction.						
A.6	16-190	16-190	Extra rate for every additional lead of 15m or part thereof beyond the initial lead of 30m upto a maximum of 19 leads (30m neglected) for all kinds of earth work. (1 nos lead.)	cum	40897.840	20.001	Twenty point Zero Zero One	817997.698	Eight Lakh Seventeen Thousand Nine Hundred and Ninety-Seven point Six Nine Eight
A.7	48-100	48-100	Fine dressing & close turbing 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, 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	649874.400	10.001	Ten point Zero Zero One	6499393.874	Sixty-Four Lakh Ninety-Nine Thousand Three Hundred and Ninety-Three point Eight Seven Four
A.8	16-300	16-300	Royalty of specified earth taken from private land (with prior permission of the Executive Engineer on production of royalty deeds with the land owner) from the area to be selected by the contractor with mutual agreement.	cum	368080.560	20.001	Twenty point Zero Zero One	7361979.281	Seventy-Three Lakh Sixty-One Thousand Nine Hundred and Seventy-Nine point Two Eight One
			"[Dumping with Boat & Total Station] Supplying, filling and dumping of geo-textile bags of different sizes and capacity at project/work site, making with standard geo-textile fabric (100% Polypropylene fabric, mass>= 400gm/m², unit weight : 855 Kg/m3 to 946 Kg/m3, EOS<=0.07 mm) and sewing in accordance with the drawing and Technical Specifications of BWDB and Schedule of Rates of BWDB,						

[illegible]

								Grand Total:	100521546.950	Five Lakh Twenty- One Thousand Five Hundred and Forty- Six point Nine Five
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This Bill of Quantities: Part A is Electronically Signed by Mr. FM on behalf of Md. Anisur Rahman Chowdhury- M/s. Liberty Traders Joint Venture

NOONA-HB (JV.) (JVCA)									
Bill of Quantities: Part A									
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)
A.1	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 x50cm x7.5cm with 12mm thick cement plastering (1:2) on exposed surfaces of pillar and cement mortar on top (1:2), with inscription of 'BWDB' with 25cm of the pillar below ground level etc. complete including ramming the backfill and the cost of all materials as per direction of Engineer in charge.	each	39.000	1288.941	One Thousand Two Hundred and Eighty-Eight point Nine Four One	50268.699	Fifty Thousand Two Hundred and Sixty-Eight point Six Nine Nine
A.2	16-100	16-100	Erection of bamboo profiles with full bamboo posts and pegs not less than 16mm in dia and coir string etc. complete as per direction of Engineer in charge.	each	642.000	319.948	Three Hundred and Nineteen point Nine Four Eight	205406.616	Two Lakh Five Thousand Four Hundred and Six point Six One Six
			Earth work by Mechanical Excavator (Long Boon) in constructing/ resectioning of embankment/canal bank/ road etc. compacted to 85%/90% maximum						

NOONA-HB (JV.)
(JVCA)

Bill of Quantities: Part A

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)
A.1	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 x50cm x7.5cm with 12mm thick cement plastering (1:2) on exposed surfaces of pillar and cement mortar on top (1:2), with inscription of 'BWDB' with 25cm of the pillar below ground level etc. complete including ramming the backfill and the cost of all materials as per direction of Engineer in charge.	each	39.000	1288.941	One Thousand Two Hundred and Eighty-Eight point Nine Four One	50268.699	Fifty Thousand Two Hundred and Sixty-Eight point Six Nine Nine
A.2	16-100	16-100	Erection of bamboo profiles with full bamboo posts and pegs not less than 16mm in dia and coir string etc. complete as per direction of Engineer in charge.	each	642.000	319.948	Three Hundred and Nineteen point Nine Four Eight	205406.616	Two Lakh Five Thousand Four Hundred and Six point Six One Six
			Earth work by Mechanical Excavator (Long Boon) in constructing/ resectioning of embankment/canal bank/ road etc. compacted to 85%/90% maximum						

A.3	16-650	16-650-10	<p>dry density at optimum moisture content, with reference to laboratory density test AAHSTO modified hammer, with clayey soil(minm 30% clay, 0-40% silt, 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profiles in layers not exceeding 230mm in thickness with clod breaking to a maximum size of 100mm, benching the side slopes, removing roots and stumps of trees of girth upto 200mm from the ground, stripping/ploughing the base of embankment and borrow pit area, dug bailing, rough dressing including 150mm cambering at the centre of crest etc. complete, including maintenance of the same for 6 months after completion, (compaction will be done by the contractor with approved equipment, including all ancillary charges for compaction and testing) as per direction of Engineer in charge. Embankment by Mech. Equipment; ht: 0 to 4m; 85% comp.</p>	cum	327182.720	149.602	One Hundred and Forty-Nine point Six Zero Two	48947189.277	Four Crore Eighty-Nine Lakh Forty-Seven Thousand One Hundred and Eighty-Nine point Two Seven Seven
			<p>Earth work by carried earth (by truck/boat or any other means) supplied at contractor's own cost (including royalty) in constructing/ resectioning of the embankment/ canal bank/ road etc. compacted to 85%/90% maximum dry density at optimum moisture content with reference to laboratory density test AASHTO modified hammer, with clayey soil (minimum 30% clay,</p>						

A.4	16-410	16-410-10	0-40% silt and 0-30% sand) beyond initial lead of 300m including throwing the spoils to profiles in layer not exceeding 230mm in thickness with clod breaking to maximum size of 100mm, benching the side slopes, removing roots and stumps of trees of girth upto 200mm, stripping/ ploughing the base of embankment and borrow pit area, dug bailing, clearing jungles, bail out of water, rough dressing including 150mm cambering at the centre of crest with all leads and lifts complete (compaction will be done by the contractor with approved equipment including all ancillary charges for compaction and testing) as per direction of Engineer in charge. 300m to 1.00 km.(85% compaction)	cum	40897.840	386.593	Three Hundred and Eighty-Six point Five Nine Three	15810818.659	One Crore Fifty-Eight Lakh Ten Thousand Eight Hundred and Eighteen point Six Five Nine
A.5	16-120	16-120-10	Earth work by manual labour in constructing/ resectioning of embankment/ canal bank/ road etc. compacted to 85%/90% maximum dry density at optimum moisture content, with reference to laboratory density test AAHSTO modified hammer, with clayey soil(minm 30% clay, 0-40% silt, 0-30% sand) within the initial lead of 30m and all lifts including throwing the spoils to profiles in layers not exceeding 230mm in thickness with clod breaking to a maximum size of 100mm, benching the side slopes, removing roots and stumps of trees of girth upto 200mm from the ground, stripping/ ploughing the base of embankment and	cum	40897.840	208.347	Two Hundred and Eight point Three Four Seven	8520942.270	Eighty-Five Lakh Twenty Thousand Nine Hundred and Forty-Two point Two Seven

			borrow pit area, dug bailing, bail out of water, rough dressing including 150mm cambering at the centre of crest etc. complete, including maintenance of the same for 6 months after completion, (compaction will be done by the contractor with approved equipment, including all ancillary charges for compaction and testing) as per direction of Engineer in charge 0 m to 3 m height with 85% compaction.						Seven
A.6	16-190	16-190	Extra rate for every additional lead of 15m or part thereof beyond the initial lead of 30m upto a maximum of 19 leads (30m neglected) for all kinds of earth work. (1 nos lead.)	cum	40897.840	24.635	Twenty-Four point Six Three Five	1007518.288	Ten Lakh Seven Thousand Five Hundred and Eighteen point Two Eight Eight
A.7	48-100	48-100	Fine dressing & 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, 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	649874.400	28.723	Twenty-Eight point Seven Two Three	18666342.391	One Crore Eighty-Six Lakh Sixty-Six Thousand Three Hundred and Forty-Two point Three Nine One
A.8	16-300	16-300	Royalty of specified earth taken from private land (with prior permission of the Executive Engineer on production of royalty deeds with the land owner) from the area to be selected by the contractor with mutual agreement.	cum	368080.560	16.479	Sixteen point Four Seven Nine	6065599.548	Sixty Lakh Sixty-Five Thousand Five Hundred and Ninety-Nine point Five Four Eight
			"[Dumping with Boat & Total Station]						

A.9	40492	40492-20	<p>Supplying, filling and dumping of geo-textile bags of different sizes and capacity at project/work site, making with standard geo-textile fabric (100% Polypropylene fabric, mass>= 400gm/m², unit weight : 855 Kg/m³ to 946 Kg/m³, EOS<=0.07 mm) and sewing in accordance with the drawing and Technical Specifications of BWDB and Schedule of Rates of BWDB, protecting the geotextile bags from UV ray or any other damages, filling with sand (dry and minimum 95% sand must be retained on sieve no 200), sewing along one transverse (top) side after filling, staking in measurable/countable stakes, marking by synthetic enamel paint during counting, dumping from properly positioned and anchored flat top engine boat over an area as per drawing, maintaining & recording the position of dumping boat using total station including loading, unloading, sequential piling of geo-bags on the dumping edge of boat, carrying geo-bags from stake-yard to dumping place by head load and power driven flat top country boat, cost of all materials & equipments and its mobilization, labour, incidental charges etc complete as per technical specification, approved design and direction of Engineer in charge. [fill volume and weight will be measured after filling with dry sand]"</p> <p>"Geo-bag; inner size:1075mmx850mm, outer</p>	no	17183.000	374.142	Three Hundred and Seventy-Four point One Four Two	6428881.986	Sixty-Four Lakh Twenty-Eight Thousand Eight Hundred and Eighty-One point Nine Eight Six
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			size:1125mmx900mm geo-fabric th.=>3.0mm, Fill Vol: 0.1164cum; wt: 175kg"						
A.10	48-130	48-130	Biological protection of bare earth surface by Dholkalmi with minimum 50cm long sapling, planting @ not more than 30 cm apart including supplying, sizing, taping and nursing etc. complete as per direction of the Engineer in charge.	m	309464.000	5.102	Five point One Zero Two	1578885.328	Fifteen Lakh Seventy-Eight Thousand Eight Hundred and Eighty-Five point Three Two Eight
							Grand Total:	107281853.062	Ten Crore Seventy-Two Lakh Eighty-One Thousand Eight Hundred and Fifty-Three point Zero Six Two

This Bill of Quantities: Part A is Electronically Signed by Mr. MD. on behalf of NOONA-HB (JV.)