Bill of Quantities (BOQ)

Construction of Arun Naadi Barahapokhari Lifting Water Supply Project.

IFB No.: 80107501300/NCB/02/WSW/ARUN/083/084

Provisional Sum					
SL. No.	**Item Description**	**Unit**	**Quantity**	**Unit Rate (NPR)**	**Amount (NPR)**
PS.1	Providing insurance coverage at cost for (a) loss of or damage to the Works, Plant, and Materials; (b) loss of or damage to Equipment; (c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and (d) Personal injury or death	PS	1.00	1,28,990.00 One lakh twenty-eight thousand nine hundred ninety rupees only.	1,28,990.00 One lakh twenty-eight thousand nine hundred ninety rupees only.
PS.2	Carry out additional tests for material and workmanship as required and instructed by the Engineer.	PS	1.00	50,000.00 Fifty thousand rupees only.	50,000.00 Fifty thousand rupees only.
PS.3	Providing and Installation of Project Signboard with size of 1.8 x 1.2m as per specification and Instruction of Engineer (SS/ SP- 110)	PS	1.00	7,000.00 Seven thousand rupees only.	7,000.00 Seven thousand rupees only.
PS.4	Installation of 3 phase TOD meter in Required transformer station with co-ordination with NEA and office as per billing of NEA	PS	1.00	2,00,000.00 Two lakh rupees only.	2,00,000.00 Two lakh rupees only.
PS.5	Electricity charge for testing of various stage of the lifting all complete as per instruction of Engineer and billing of NEA	PS	1.00	2,00,000.00 Two lakh rupees only.	2,00,000.00 Two lakh rupees only.
	Total provisional sums				5,85,990.00 Five lakh eighty-five thousand nine hundred ninety rupees only.

Works for complete or part construction and civil engineering work CPV: 45200000-9 - Works for complete or part construction and civil engineering work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.1	Clearing and grubbing the site for construction by removing 150 mm thick top soil including bushes, small trees. leveling of undulated ground. shorting and stacking/storing selected top soil for reuse in landscaping works, disposing unsuitable materials from site, etc. all	sq.m	66.00			

Works for complete or part construction and civil engineering work CPV: 45200000-9 - Works for complete or part construction and civil engineering work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
	complete as per drawings, specifications and instructions of the Engineer.					
1.2	Excavation in foundations in all type of soils for foundation, trenches, footing, pits etc. to the required depth including dewatering by manual or mechanical means etc. as per specifications with all contractor’s own machinery and equipment's, providing crossing of track, shoring, strutting, timbering and buttressing with appropriate materials and all such measures necessary to retain in position the sides of the foundation pit and including refilling the excavated material with watering, ramming, leveling the site and disposing off the surplus/unusable earth to outside the construction premises, etc. all complete as per drawings, specifications and instructions of the Engineer.	cu.m	149.35			
1.3	Back filling in foundation and sides of foundation with approved soil obtained from the excavation at site and stacked at site or brought from outside in layer not exceeding 15 cm thick (compacted thickness) including transportation of soil, spreading in required line and level, sprinkling water, ramming, compacting with mechanical rammers, testing, etc., all complete as per drawing, specification and instructions of the Engineer.	cu.m	37.61			
1.4	Backfilling with sand and compacting with labour on every 15cm layers	cu.m	9.19			
1.5	Backfilling with Gravel and compacting with labour on every 15cm layers	cu.m	25.81			
1.6	Providing and laying Dry stone soling in foundation, under floor plinth etc according to drawings, specifications and instruction of the Engineer.	cum	31.10			
1.7	Providing and Laying Plain Cement Concrete (P.C.C.) in 1:2:4 in floor, corridor with cement, sand and aggregate including mixing, laying, finishing to approved level, line and dimensions and curing all complete as per specification and instruction of site Engineer.	cu.m	15.66			

Works for complete or part construction and civil engineering work CPV: 45200000-9 - Works for complete or part construction and civil engineering work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.8	Providing and Laying P.C.C.(1:1.5:3) M20 for R.C.C.work in foundation, columns, beams, slabs, lintels etc. with cement, sand, and Aggregate(stone ballast or Crushed) 38mm gauge including mixing with concrete mixture, compacting the concrete with vibrator machine, laying, finishing to approved level ,lines and dimensions and curing all complete as per instruction of site Engineer.	cu.m	47.08			
1.9	Providing Reinforcement bars (Grade 500) work including straightening, cleaning, cutting, bending, binding with 20 SWG annealed wire & fixing in position as per drawing, bar bending schedule for raft foundation column, beam, wall, stair, slab in all R.C.C. works as per specification, drawing & instruction of site engineer. Approved brands: Himal, Panchakanya or equivalent.	Mt.	2.45			
1.10	Supplying and laying centering, shuttering of various pattern formworks with 19 mm thick water proof ply wood & steel adjustable props for all kinds of RCC works for foundations, columns, shear walls, beams, slab, staircase, lintel, sill, pergola, including nails, propping scaffolding, staging, supporting as per drawing, specifications and instructions of the Engineer.	sq.m	272.15			
1.11	Providing & laying stone Masonry in 1:6 C/S mortar in substructure upto ground floor in perfect line level finish including racking the joints and curing the work for at least 7 days as per specification, drawings & instructions of the site engineer all complete.	cu.m	42.27			
1.12	Providing & laying 1st class machine made brickwork in 1:6 C/S mortar in superstructure in perfect line level finish including wetting the bricks, racking the joints and curing the work for at least 7 days as per specification, drawings & instructions of the site engineer all complete.	cu.m	18.41			

Works for complete or part construction and civil engineering work CPV: 45200000-9 - Works for complete or part construction and civil engineering work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.13	Supplying and fixing Well seasoned salwood chaukhats for fixed/openable door with good finish of approved quality incuding fixing in postion with necessary M.S. hold fasts as per drawing and instruction all complete as per drawings, specification and instruction of the Engineer.	cu.m	0.19			
1.14	Supplying and fixing Well seasoned salwood chaukhats for fixed/openable Window with good finish of approved quality incuding fixing in postion with necessary M.S. hold fasts as per drawing and instruction all complete as per drawings, specification and instruction of the Engineer.	cu.m	0.25			
1.15	Supplying and fixing Well seasoned Local Hard woods shutters for fixed/openable door with good finish of approved quality and english door design incuding fixing in postion with necessary hinges,screws, locking set-1,tower bolts-2 ,door handle -2 etc as per drawing and instruction all complete as per drawings, specification and instruction of the Engineer.	sq.m	8.75			
1.16	Supplying and fixing Well seasoned Local Hard woods shutters for fixed/openable Window with good finish of approved quality and design incuding fixing in postion with necessary hinges,screws, locking set,tower bolts, hook and eye bolts etc as per requirement and drawing, instruction all complete.	sq.m	5.82			
1.17	Providing, laying in required line, level and pattern 75 mm thick IPS floor finish with cement concrete of mix 1:2:4 (1 cement : 2 sand : 4 crushed stone aggregate 12 mm and down and 1:1 3mm Punning all complete as per drawing, specification and instructions of the Engineer.	sq.m	38.05			
1.18	- Neat Cement 100 mm high skirting in all floor Perimeter ,stairs all complete as per as per drawing, specification and instructions of the Engineer..	r.m	64.03			

Works for complete or part construction and civil engineering work
CPV: 45200000-9 - Works for complete or part construction and civil engineering work

SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1.19	Providing and Laying glazed/ non glazed porcelain tiles on walls with colour bit on top and floor of approved colored laid with cement sand mortar (1:4) finished with cement slurry all complete as per site instruction of Engineer.	sq.m	7.33			
1.20	3 mm Cement punning on Plastered Surface complete as per as per drawing, specification and instructions of the Engineer..	Sqm	21.00			
1.21	Providing, laying & curing 12.5 mm thick cement sand (1:4) Plaster on Outer,inner walls and ceiling and floor to perfect plumb, lines & level all complete including 20mm Drip Course as per design drawings, specifications and instruction of the site engineer all complete.	sq.m	270.25			
1.22	Colouring with Two coats of plastic emulsion paint with one coat primer to give uniform colouring after rendering the surface on wall,ceiling,column,beam,etc as per specification and instruction all complete.	sq.m	265.39			
1.23	Supplying and painting two coat of ready made enamel paint of approved quality ,colour and approved manufacturer (Asian, Berger or equivalent) with one coat of primer painting over porperly cleaned surface all complete as per drawings, specifications and instructions. The finished surface shall give even and uniform surface.	sq.m	14.57			
1.24	Supply and Installation of Diferent Size MS Hollow Square Pipes all Complete as per drawings and specification	kg	144.45			
1.25	Providing and laying mechanical woven Gabion boxes /mattresses, placing in position including stretching; forming compartments tying the sides and diaphragms with binding wire in each mesh; tying with bracing wires and tie wires, tying down the lid and filling stone/boulder in gabion boxes/mattress etc.. Including dressing, bedding, bondingall complete as per Drawing and Technical Specifications. (Heavy zinc coated Hexagonal mesh type 100 mmx 120 mm, mesh wire 3 mm, selvagewire 3.9 mm, lacing wire 2.4 mm). Spec. cl. No: 2402	Cum	56.00			

Electromechanical equipment
CPV: 31720000-9 - Electromechanical equipment

SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
2.1	Expected discharge 208 LPM ,323.73 m Dynamic Head 150 mm Borewell Submersible Pumpsets: stage 42 Pump Model N60A/42 Motor Type L6525-KP capacity 25 HP (18.5 KW) Brand LUBI or Equivalent of Type	Per Set	2.00			
2.2	Expected discharge 210 LPM ,354.76 m Dynamic Head 150 mm Borewell Submersible Pumpsets: stage 39 Pump Model N60A/39 Motor Type L6525-KP capacity 25 HP (18.5 KW) Brand LUBI or Equivalent of Type	Per Set	2.00			
2.3	Control Panel: 25 HP, 3 phase Star Delta Contorl Panel board	Per Set	4.00			
2.4	Submersible Flat Cable 25 sqmm	Per mtr	80.00			
2.5	Float ball Switch for dry run protection with 20 meter cable	Set	4.00			
2.6	Pump Housing pipe ERW 300 mm 6 mm mild Steel with fabrication all complete	Meter	30.00			
2.7	Installation of Submerssibe Pump in Bore Hole and Assembling of all Electromechanical Components including panel Board Including testing and commissioning all Complete	Job	4.00			
2.8	Testing of Leakage, Re-weilding and Testing of Pipeline per Stage Lifting all Complete as per instruction of Engineer	Job	3.00			

Pipes and fittings
CPV: 44163000-0 - Pipes and fittings

SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
3.1	Bulk meter PN 16 with all necessary gasket , nut, bolt etc for 80mm dia	Nos	1.00			

Pipes and fittings CPV: 44163000-0 - Pipes and fittings						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
3.2	Class 300, 80 mm dia double flange cast iron sluice valve with all necessary gasket, nut, bolt etc	Nos	3.00			
3.3	300 class 50 kg/cm2 pressure gauge with cock and all other accessories 25 mm dia	Nos	2.00			
3.4	300 class 80 mm dia double flanged Non-Return Valve with all necessary gasket, nut, bolt etc.	Nos	2.00			
3.5	300 class 80 mm diameter flange set with all necessary gasket, nut, bolt etc	Nos	15.00			
3.6	High quality Rubber Gasket set	Nos	15.00			
3.7	MS Surface Plate (600 x 600 x 25) mm	Nos	2.00			
3.8	Air vaccum valve with necessary Vent Pipe	Nos	2.00			
3.9	300 MS Puddle Flange Tail Pic with Blind Flange set	Nos	2.00			
3.10	80 mm GI Pipe 3"-Heavy (StageIII) Including Weilding and jointing all complete with testing	Rm	295.00			
3.11	Bulk meter PN 16 with all necessary gasket , nut, bolt etc for 80mm dia	Nos	3.00			
3.12	Class 300, 80 mm dia double flange cast iron sluice valve with all necessary gasket, nut, bolt etc	Nos	12.00			
3.13	300 class 50 kg/cm2 pressure gauge with cock and all other accessories 25 mm dia	Nos	6.00			
3.14	300 class 80 mm dia double flanged Non-Return Valve with all necessary gasket, nut, bolt etc.	Nos	6.00			

Pipes and fittings
CPV: 44163000-0 - Pipes and fittings

SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
3.15	300 class 80 mm diameter flange set with all necessary gasket, nut, bolt etc	Nos	45.00			
3.16	Air vaccum valve with necessary Vent Pipe /Air Releaase Valve for 80mm	Nos	6.00			
3.17	Flexible Expansion Joint Rubber Bellow Types for 80mm	Nos	6.00			
3.18	GI Strainer 80 mm	Nos	3.00			
3.19	Mechanical Coupling 80mm Class 300	Nos	9.00			
3.20	DI 90 bend 80 mm Class 300	Nos	9.00			
3.21	DI Pipe 80 mm with necessary flange set Class 300	M	10.00			
3.22	Providing 600 mmdia. CI Manhole Cover all Complete including Frame and Fitting	Nos	3.00			

Electrical accessories
CPV: 31681000-3 - Electrical accessories

SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
4.1	Procurement of 11 m HT 3 phase, Electric pole 1 fold, 3 bolt joint, at top 76 mm OD,thickness 3.25mm and 2.75mm long(0.125m overlap), at middle 90mm OD, thickness 3.65mm and 2.5m long (o.125m overlap), at bottom 115mm OD, thickness 3.65mm and 4m long, buried length of 1.4m with bottom cap 300*300*6mm with Galvanized zinc Coating approximately weight of pole 178 kg+-5%	nos	9.00			
4.2	Procurement of 11kv Pin Insulator with Spindle	Sets	30.00			

Electrical accessories
CPV: 31681000-3 - Electrical accessories

SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
4.3	Procurement of Pa 2850 Hp dead End Clamp/Disc Grapher	sets	6.00			
4.4	Procurement of Stay assembly complete set (HT- 7/12 SWG-GI wire,GI plate,Guy Insulator,Elbow,Rod-nut,Grip)	Sets	2.00			
4.5	Procurement of Top Galvanized MS channel 300 mm	nos	8.00			
4.6	Procurement of Galvanized MS channel 600 mm	nos	2.00			
4.7	Procurement of Galvanized MS channel 1200 mm	Nos	8.00			
4.8	Procurement of Galvanized MS channel 2500 mm	Nos	2.00			
4.9	Procurement of Galvanized MS Bracing patti	Nos	16.00			
4.10	Procurement of Galvanized MS Pole Clamp	Nos	18.00			
4.11	Procurement of 50sq.mm XLPE Covered Conductor	M	1,155.00			
4.12	Procurement of PG clamp	Nos	24.00			
4.13	Procurement of 11/0.4 KV, 50 KVA 3-Phase Distribution Tranformer Self/NEEK Equivalent	Nos	1.00			
4.14	Procurement of 100 Amp MCCB with Box on Transformer	Nos	1.00			
4.15	Procurement of 4- Core 25 sq.mm Power Cable	mtr	25.00			
4.16	Procurement of Cable Socket	Nos	8.00			
4.17	Procurement of 11 KV Disconnecting Switch (3-Nos=Set)	Set	1.00			
4.18	Procurement of 9 KV Lightining Arrestor	Nos	3.00			

Electrical accessories
CPV: 31681000-3 - Electrical accessories

SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
4.19	Procurement of 11 KV DO Fuse Set	Nos	3.00			
4.20	Procurement, Installation and Testing of Earthing set(copper plate 600*600*3mm, including 8mm, SWG Earthing wire, stay set and Earthing Rod all complete As per technical Specificationa and instruction of Engineer	set	1.00			
4.21	Procurement of Nut Bolt Suitable (6",8",12")	Kg	10.80			
4.22	Erection of 11m Steel Tubular Pole all complete as per instruction of Engineer	Nos	9.00			
4.23	Bush Cutting,Branch Cutting, Tree Felling and all necessary clearance upto 2m c/c on either side of transmission line for Stringing	rm	350.00			
4.24	Stringing of 3-wires 50sq.mm XLPE Covered Conductor 11 KV HT all complete including excavation ,fitting channels, insulators,necessary support and backfilling	Km	0.38			
4.25	Installation of Stay Set all complete including excavation ,fitting channels, insulators,necessary support and backfilling	set	0.38			
4.26	Installation of 11 kV Disconnecting Switch and lightining arrestor all complete with necessary fittings	Set	2.00			
4.27	Installation and testing of 50kVA 11/0.4 KV Transformer all complete with necessary fittings including Channels	Set	2.00			
4.28	Transportation of 11mtr St pole	Kg	1,602.00			
4.29	Transportation of Conductor, Insulator and Other Accessories	Kg	720.00			
4.30	Connection of Water Supply Three Phase Line with NEA Main Line all complete	Job	1.00			

Plumbing and sanitary works CPV: 45330000-9 - Plumbing and sanitary works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
5.1	Pan Set: Providing and fixing good quality 20" WC pan (including porcelain clay toilet pan, syphon, foot rest and trap with p-trap and porcelain low level flushing Cistern with necessary fittings all complete as per specification and instruction of engineer.	nos	1.00			
5.2	Steel Bib Cock: Providing and fixing steel bib cock with necessary fittings all complete as per specification and instruction of engineer.	nos	2.00			
5.3	CPVC Pipe 15mm: Providing and fixing 15 mm CPVC Pipe SDR 13.5 CTS with CPVC fittings/ specials(Tees, elbows, Unions etc) clamps (m.s. plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the sams to its original finish, all complete set as per specification and instruction of engineer.	r.m	10.00			
5.4	CPVC Pipe 20mm: Providing and fixing 20 mm CPVC Pipe SDR 13.5 CTS with CPVC fittings/ specials(Tees, elbows, Unions etc) clamps (m.s. plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the sams to its original finish, all complete set as per specification and instruction of engineer.	r.m	10.00			
5.5	UPVC Pipe 50mm: Providing and fixing 50mm upvc pipe 6kg/cm2 with necessary fittings, NS testing the pipe line by the smokig test rectifying the leakage if any, all complete as per the specification and instruction all complete as per specification and instruction of engineer.	r.m	5.00			
5.6	UPVC Pipe 75mm: Providing and fixing 75mm upvc pipe 4kg/cm2 with necessary fittings, NS testing the pipe line by the smokig test rectifying the leakage if any, all complete as per the specification and instruction all complete as per specification and instruction of engineer.	r.m	5.00			

Plumbing and sanitary works
CPV: 45330000-9 - Plumbing and sanitary works

SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
5.7	UPVC Pipe 110mm: Providing and fixing 110 mm dia upvc pipe 4kg/cm2 with necessary fittings, NS testing the pipe line by the smokig test rectifying the leakage if any, all complete as per the specification and instruction all complete as per specification and instruction of engineer.	r.m	5.00			

Electrical wiring and fitting work
CPV: 45311000-0 - Electrical wiring and fitting work

SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
6.1	Supply, Installation,Testing and Commissioning of 25 A DP MCB All Complete as per drawing and Specification ABB MCB ABB ,SIEMENS, SCHNEIDER or Equivalent	No.	1.00			
6.2	Wiring of Light/Fan and Power Points: Supply of materials and wiring with 2x 2.5 sq mm PVC insulated cupper wire wiring concealed type for light & fan point in NS Approved HDPE polythene Conduit without any joint in middle of the span with Necessary connecting ,fixing insulating,and jointing materials as per drawing and Specification including installation all complete. (Wire: TRishakti,Pioneer,litmus)	Point	5.00			
6.3	Wiring of Light/Fan and Power Points: Supply of materials and wiring with 2x4 +1*1.5 sq mm PVC insulated cupper wire wiring concealed type for Power point in NS Approved HDPE polythene Conduit without any joint in middle of the span with Necessary connecting ,fixing insulating,and jointing materials as per drawing and Specification including installation all complete. (Wire: TRishakti,Pioneer,litmus)	Point	15.00			
6.4	Light Fixtures : Supply, Installation,Testing and Commissioning of Light Fixtures 12W LED LIGHT Complete Including fixing Materials all Complete as per Drawing Brands: PHILIPS,WIPRO,HOMDEC,FIAM,LEGERO,HIMSTAR or equivalent	set	15.00			

Electrical wiring and fitting work CPV: 45311000-0 - Electrical wiring and fitting work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
6.5	Switches and Sockets:Supply of 10 A 1 gang 1 way Switch with indicator with required joint 18 swg GI metal Boxes ,screw,pvc tapes and other necessary accessories with its installation ,interconnection,and comissioning including civil works as per drawing ,specification all Complete Brands :(SCHNEIDER,NORTHWEST,SKAVA or Equivalent	Set	1.00			
6.6	Switches and Sockets:Supply of 10A 3 gang 1 way Switch indicator with required joint 18 swg GI metal Boxes ,screw,pvc tapes and other necessary accessories with its installation ,interconnection,and comissioning including civil works as per drawing ,specification all Complete Brands :(SCHNEIDER,NORTHWEST,SKAVA or Equivalent	Set	3.00			
6.7	Switches and Sockets:Supply of 5/6 pin 16 A Socket with indicator and switch with required joint 18 swg GI metal Boxes ,screw,pvc tapes and other necessary accessories with its installation ,interconnection,and comissioning including civil works as per drawing ,specification all Complete Brands :(SCHNEIDER,NORTHWEST,SKAVA or Equivalent	Set	5.00			

Total Item Price	
VAT (13.00%)	
Grand Total	