Bill of Quantities (BOQ)

Ram Janaki Aadharbhut Bidhyalay ko Bhawan Nirman .

IFB No.: 38219410/NCB/HRP/WORKS/2083-084/01

Provisional Sum					
SL. No.	**Item Description**	**Unit**	**Quantity**	**Unit Rate (NPR)**	**Amount (NPR)**
PS.1	Insurance	ps	1.00	2,25,200.79 Two lakh twenty-five thousand two hundred rupees and seventy-nine paisa only.	2,25,200.79 Two lakh twenty-five thousand two hundred rupees and seventy-nine paisa only.
PS.2	Lab Test	ps	1.00	1,01,667.16 One lakh one thousand six hundred sixty-seven rupees and sixteen paisa only.	1,01,667.16 One lakh one thousand six hundred sixty-seven rupees and sixteen paisa only.
PS.3	Joint Survey Before & After Construction	Ps	1.00	25,000.00 Twenty-five thousand rupees only.	25,000.00 Twenty-five thousand rupees only.
PS.4	Project Sign Board	ps	1.00	5,000.00 Five thousand rupees only.	5,000.00 Five thousand rupees only.
PS.5	Digital Display Board	ps	1.00	45,000.00 Forty-five thousand rupees only.	45,000.00 Forty-five thousand rupees only.
	Total provisional sums				4,01,867.95 Four lakh one thousand eight hundred sixty-seven rupees and ninety-five paisa only.

Construction work CPV: 45000000-7 - Construction work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.1	Clearing from the site all the unnecessary vegetation, roots and other unuseful materials including excavation of top soil to a depth of 15 cm, removing bushes, trees and levelling the Site for stacking the useful items in specified space and disposing other item before	Sq.m	1,123.62			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
	commencing the construction work and Placing project description sign board as per instruction of the site engineer all complete including layout of buildings, roads and ancillary services.					
1.2	Dismantling work of cgi sheet roof and removing of all material wood, cgi sheet upto 10 mtr lead.	Sqm	355.06			
1.3	Dismantling work of R.C.C. / R.B.C. and removing of material upto 10 mtr lead.	Cum	2.97			
1.4	Dismantling work of cement masonry wall & removing of material upto 10 mtr lead.	Cum	200.09			
1.5	Dismantling work of P.C.C. / L.C.C.and removing of material upto 10 mtr lead.	Sqm	34.37			
1.6	Earth work in excavation in trenches, foundations etc. in soft soil including timbering and shoring, pumping out water from trenches if necessary, dressing of sides, lift up to 1.5 m stacking of excavated material at least 10 m clear from the edge of the trench.	Cum	954.08			
1.7	Earthwork Backfilling under floors with good quality earth in 150 mm thick layers with sprinkling water, ramming and consolidating including transportation all complete.	cum	386.95			
1.8	Suppying and laying Gravel Sand mixed (agg-50 percentage + sand 50 percentage) filling work with proper manual compaction.	Cum	89.76			
1.9	Earth filling (Earth transported from 5 Km. surronding) work in every 15-15 cm. layer with proper compaction.	Cum	279.49			
1.10	Providing and laying Regular size flat bricks of good quality soling in foundation and floors including sand filling in joints all Complete.	Sqm	867.46			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.11	Providing, laying, compacting and curing plain cement concrete M10 (1:3:6) in foundation with cement, sand and Crushed aggregates finishing to approved level, lines and dimensions all complete as per drawings, specifications and instruction of the site engineer.	Cum	45.82			
1.12	Providing, laying, compacting and curing plain cement concrete M15 (1:2:4) in Solid Floor and other places with (OPC) cement, sand and graded crushed bed aggregates finishing to approved level, lines and dimensions using all complete as per drawings, specifications and instruction of the site engineer.	Cum	28.12			
1.13	Structural concrete (1:1.5:3 or M20 grade) with approved quality of cement, sand and crushed stone aggregate for all reinforced cement concrete including mixing with concrete mixture machine, laying, compacting with vibrator, curing and finishing excluding centering shuttering and cost of reinforcement all complete as per instruction of site incharge/ engineer on the basis of drawings, specifications, etc.	Cum	50.08			
1.14	Structural concrete (1:1:2 or M25 grade) with approved quality of cement, sand and crushed stone aggregate for all reinforced cement concrete including mixing with concrete mixture machine, laying, compacting with vibrator, curing and finishing excluding centering shuttering and cost of reinforcement all complete as per instruction of site engineer on the basis of drawings, specifications, etc.	Cum	545.48			
1.15	Fixing Torsteel or TMT Reinforcement Grade-1 (Fe 500) conforming to I.S. 1786-1985 in R.C.C. work including cleaning, cutting, bending, placing in position and binding with no.16 swg annealed binding wire all complete as per instruction of site incharge/ engineer on the basis of drawings, specifications, etc. Approved Brands: Himal Iron, Panchakanya or equivalent.	Kg	92,725.42			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.16	Formwork centering and shuttering with approved material such as shuttering plywood, local wood or plain steel etc. for all RCC/PCC works of any shape, size & at any level with necessary steel propping, scaffolding, staging, supporting, cutting holes for utilization works etc.including providing final surface and oil & removal of forms all complete.	Sqm	3,524.94			
1.17	Providing and laying first class brick masonry in cement mortar including preparation of mortar in Ground Floor as per Specification, lead 30 m. (cement: sand, 1:4) all complete.	cum	153.86			
1.18	Providing and laying first class brick masonry in cement mortar including preparation of mortar in First Floor and above as per Specification, lead 30 m. (cement: sand, 1:4) all complete.	cum	146.28			
1.19	Providing and laying 12.5 mm. thick cement sand plaster work (1:3, cement: sand) on ceilling as per Specification, lead 30 m. all complete work.	Sqm	1,284.50			
1.20	Providing and laying 12.5 mm. thick cement sand plaster work 1:4 on Wall per Specification, lead 30 m. all complete work.	Sqm	2,725.81			
1.21	Providing and laying Two coat plastic emulsion painting work over primer coat as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	2,550.85			
1.22	Providing and laying 2 mm thick plane white putting plaster work in wall and ceilling as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	2,550.85			
1.23	Providing and laying Two coat weather proof painting work over primer coat as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	1,353.82			
1.24	Providing and laying 38 mm thick P.C.C. (1:2:4) work in floor with all complete as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	1,412.16			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.25	Providing and laying Two coat elastocret cementious elastomeric water proofing work as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	381.99			
1.26	Providing and laying 25 mm thick Parking tile paving with 50 mm thick cement sand mortar 1:4 rubbing and polishing work with all complete as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	381.99			
1.27	Providing and laying Granite 16mm thick paving with 20 mm thick cement sand mortar 1:2 rubbing and polishing work with all complete as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	940.65			
1.28	Providing and laying Porcelain glazed or non glazed tile paving work in cement sand (1:4) mortar as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	398.27			
1.29	Providing and laying 12x12 mm solid core square rod M. S. grill with 4 x 20mm Metal frame as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	243.91			
1.30	Providing and laying UPVC Sliding window with net (frame 50*80 mm, sash 58*36 mm, white colour with 5mm glass} as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	225.78			
1.31	Providing and laying UPVC Single Door with full panel (frame 60*60 mm, sash 60*104 mm. white colour with 5mm glass) as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	93.30			
1.32	Supplying and fixing work of Stainless Steel 50mm dia Handrail in 2.00m.distance with 50mm dia. vertical post & 3 layer Horizontal 25mm dia. stainless steel member ,2.5 feet to 3 feet height Railing with Painting and fixing as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	57.42			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.33	Supplying and fixing work Collapsible shutter including manufacturing, welding, supply of material, painting and fixing as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	12.81			
1.34	Supplying and fixing work MCM Brick Cladding along with rubbing and polishing work with all complete as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	144.85			
1.35	Supplying and fixing Two Coat Silicon Paint Acropreg W painting work as per Specification and instruction of site engineer, lead 30 m. all complete work.	Sqm	144.85			
1.36	Suppying and Laying 3 mm thick neat cement punning (1 cement : 1 Sand) work with all Complete.	Sqm	140.47			
1.37	Plantation work of Trees like Ashok, Dhupi and other trees and protecting and watering them upto 1 month as instructed by site engineer,	nos	10.00			
1.38	Turfing with chinese Dubo by removing 15 cm top soil and providing fertile soil , manuring all complete as per instruction of site engineer.	Sqm	225.00			
1.39	60 mm thick interlocking block over 50 mm thick Crusser dust laying work with all complete.	Sqm	215.40			
1.40	Fencing with 62mm X 62mm size mesh made up of 7mm dia rods framed on 25X25X4 mm angles and 50mm dia M.S. blackpipe post in 2m interval including jointting , fixing, erection and primer painting with all necessary M.S. grills and plates With Security Arrow Head.	Sqm	120.60			
1.41	Providing and applying Iron gate made up of 16 gauge black sheet on 50 X 50 X 4 mm M.S. angle frame All Complete As Instruction Of Site Engineer.	Sqm	21.80			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.42	Providing and applying by spray or brush two or more coats of 1st quality synthetic enamel paint of approved manufacturer (Asian, Berger or equivalent) over wooden or metal surface in required shade at any height, shape, including surface preparation, fillers/putty, scaffolding, protection etc. all complete as per drawings, specifications and instructions. The finished surface shall give even and uniform surface.	Sqm	180.90			
1.43	Porcelain clay white glaze One Piece Comode with 'P ' and 's ' trap and slow falling seat cover (Hindware, Parryware ,Bolan, Tita, Akwa or eqv.) all complete set.	Set	18.00			
1.44	(75x50)cm Porcelain clay Oval white glazed Wash basin with pedastal with mixture complete set.	Set	18.00			
1.45	Small Flat back White glazed urinal (46.5x35.5x26.5)cm all complete set	Set	4.00			
1.46	2000 liter stainless steel water tank 304 grade steel with Inlet, outlet, over flow, cleanout hole etc. fitting with all compete	Set	1.00			
1.47	Supplying & Installation of 2 H.P. Electrical motor water pump Multi stage coupled pump (Crompton) all complete	Set	1.00			
1.48	Glass Shelf with CP Guard Rail	Set	18.00			
1.49	C P towel rod 24 inch size Heavy	Set	9.00			
1.50	Looking Mirror Modi guard 450x600mm .	Set	18.00			
1.51	15mm CP Bib Cock	Set	18.00			
1.52	15mm C.P. Angle valve	Set	36.00			
1.53	15mm C.P. Urinal Auto closing Valve with built in control cock	Set	4.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.54	PVC Floor Trap 11x7.5cm	Nos.	10.00			
1.55	PVC Grating 100mm dia	Nos.	10.00			
1.56	G.M. 15mm Gate Valve	No	10.00			
1.57	G.M. 20mm Gate Valve	No	10.00			
1.58	G.M. 25mm Gate Valve	No	10.00			
1.59	50 mm dia PVC Pipe 6 kg/cm2.	Rm	110.00			
1.60	75 mm dia PVC Pipe 6 kg/cm2.	Rm	90.00			
1.61	110 mm dia PVC Pipe 6 kg/cm2.	Rm	80.00			
1.62	15 mm CPVC (Chlorinated Polyvinyl Chloride) Pipe SDR 11 CTS, 28.1 kg/cm2 (Flowguard or ISI Standard)	Rm	15.00			
1.63	20 mm CPVC (Chlorinated Polyvinyl Chloride) Pipe SDR 11 CTS, 28.1 kg/cm2 (Flowguard or ISI Standard)	Rm	100.00			
1.64	25 mm CPVC (Chlorinated Polyvinyl Chloride) Pipe SDR 11 CTS, 28.1 kg/cm2 (Flowguard or ISI Standard)	Rm	40.00			
1.65	32 mm CPVC (Chlorinated Polyvinyl Chloride) Pipe SDR 11 CTS, 28.1 kg/cm2 (Flowguard or ISI Standard)	Rm	50.00			
1.66	50 mm Plain Tee	No	24.00			
1.67	50 mm Bend 90 degree	No	50.00			
1.68	50 mm Bend 45 degree	No	60.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.69	75 mm Vent cowl	No	12.00			
1.70	75 mm Plain tee	No	30.00			
1.71	75 mm Plain door tee	No	30.00			
1.72	75 mm Bend 90 degree	No	45.00			
1.73	75 mm Door bend	No	13.00			
1.74	75 mm Bend 45 degree	No	30.00			
1.75	75 mm Y- Branch	No	18.00			
1.76	75 mm Cross tee	No	30.00			
1.77	75 mm Pipe clip	No	150.00			
1.78	110 mm Vent cowl	No	2.00			
1.79	110 mm Plain tee	No	45.00			
1.80	110 mm Door tee	No	15.00			
1.81	110 mm Bend 90 degree	No	60.00			
1.82	110 mm Door bend	No	30.00			
1.83	110 mm Bend 45 degree	No	45.00			
1.84	110 mm Y Branch	No	15.00			
1.85	110 mm Cross tee	No	45.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.86	110 mm Pipe clip	No	30.00			
1.87	110 mm Gully trap	No	30.00			
1.88	Supply and fixing of Fire Extinguishers : Type ABC	No	12.00			
1.89	Motor Starter switch (Crompton or equivalent)	No	1.00			
1.90	CP Toilet Paper Holder heavy	No	18.00			
1.91	15mm CP Commode Spray with 1.2 m long flexible pipe	No	18.00			
1.92	15.0 Ltr Electric Water Heater (Geyser), (Aeroston, fazer or eqv.)	No	5.00			
1.93	18 watt round or square, recess or surface mount, energy efficient back lit diffused slim fit LED downlights made of a high efficient die cast aluminum housing having a luminous efficacy of not less than 95 lm per watt or lumninous flux not less than 1710lm with high quality flicker free constant current led driver. Reiz , Legero, Philips or equivalent, etc all complete.	Set	125.00			
1.94	18 Watt, 4 ft. long Batten LED Light, with high efficient led having an acrylic cover per diffuser and a luminous efficacy of not less than 95 lm per watt or lumninous flux not less than 1900lm with high quality flicker free constant current led driver. Reiz , Legero, Philips, or equivalent, etc all complete.	Set	15.00			
1.95	20 Watt back lit LED Recessed or Surface Luminaire, suitable for 300 X 300 module and which is enclosed with high efficient flat PMMA low glare diffuser, with a luminous efficacy of not less than 95 lm per watt or lumninous flux not less than 1900lm and high quality flicker free constant current led driver. Reiz , Legero , Philips or equivalent, etc all complete.	Set	5.00			

Construction work
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SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1.96	40 Watt back lit LED Recessed or Surface Luminaire, suitable for 600 X 600 module and which is enclosed with high efficient flat PMMA low glare diffuser, with a luminous efficacy of not less than 95 lm per watt or lumninous flux not less than 3800lm and high quality flicker free constant current led driver. Reiz , Legero , Philips or equivalent, etc all complete.	Set	5.00			
1.97	5 to 9 Watt Led Slim Fit Mirror Lamp, having a luminous efficacy of not less than 80lm per watt with high quality flicker free constant current led driver. Reiz , Legero, Philips, etc all complete.	Set	10.00			
1.98	5 to 9 Watt Led decorative Weatherproof bulkhead Lamp, having a luminous efficacy of not less than 80lm per watt with high quality flicker free constant current led driver. Reiz , Legero, Philips, etc all complete.	Set	20.00			
1.99	42 inch Ceiling Fan of Orient or Almonard or Bajaj or eqvt etc all complete.	Set	45.00			
1.100	16 inch wall fan ofOrient or Almonard or Bajaj or eqvt etc all complete.	Set	10.00			
1.101	Dimmer switch for fan etc all complete.	Set	45.00			
1.102	9 inch Exhaust Fan of Orient or Almonard or Bajaj or eqvt etc all complete.	Set	15.00			
1.103	1.00 TR wall mounting DC inverter type air conditioning unit with complete installation power supply 220 v AC single phase Daikin or eqvt heating and cooling copper pipe,insulation etc all complete.	Set	10.00			
1.104	1.50 TR wall mounting DC inverter type air conditioning unit with complete installation power supply 220 v AC single phase Daikin or eqvt heating and cooling copper pipe,insulation etc all complete.	Set	5.00			

Construction work
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SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1.105	2 TR ceiling cassette DC inverter air conditioning unit with complete installation power supply 220 v AC single phase Daikin or eqvt heating and cooling copper pipe,insulation etc all complete.	Set	3.00			
1.106	6 to 16 Amps combined S socket flat or round pin flush type with flush mounting galvanized metal box of size: (78x100x45) mm for modular power socket and appropriate front plate. Northwest ,Siemens,ABB or eqvt. etc all complete.	Set	66.00			
1.107	1 gang 1, 2 way switch with flush mounting galvanized metal box of size: (78x78x45) mm for modular switch and appropriate front plate, Northwest, ABB, Siemens or eqvt. etc all complete	Set	10.00			
1.108	2 gang 1, 2 way switch with flush mounting galvanized metal box of size: (78x78x45) mm for modular switch and appropriate front plate, Northwest, ABB, Siemens or eqvt. etc all complete	Set	10.00			
1.109	3 gang 1 way switch with flush mounting galvanized metal box of size: (78x100x45) mm for modular switch and appropriate front plate, Northwest, ABB, Siemens or eqvt. etc all complete	Set	5.00			
1.110	4 gang 1 way switch with flush mounting galvanized metal box of size: (78x140x50) mm for modular switch and appropriate front plate, Northwest, ABB, Siemens or eqvt. etc all complete	Set	15.00			
1.111	6 gang 1 way switch with flush mounting galvanized metal box of size: (78x205x50) mm for modular switch and appropriate front plate, Northwest, ABB, Siemens or eqvt. etc all complete	Set	25.00			
1.112	8 gang 1 way switch with flush mounting galvanized metal box of size: (78x230x60) mm for modular switch and appropriate front plate, Northwest, ABB, Siemens or eqvt. etc all complete	Set	5.00			
1.113	Junction box made of metal with cover size 6inchX4 inch etc. all complete.	Set	136.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.114	60 to 100 Amp Panel board double door type with locking arrangement with 2 coat of red oxide metal primer and 3 stage quality paint before final coat of enamel paint (Three phase , Neutral link , Earth link) TPNE Copper bus bar including necessary accessories for internal wiring at the board excluding the cost of MCCB and measuring instruments, board made of mild steel sheet with cu. busbar double cover floor mount size (9x36x48)inch and color push type lock the following items with necessary cable labeling,etc. all complete. Size : (9inchx36inchx48inch)	Set	1.00			
1.115	80-100 Amps TP MCCB 25kA Siemens. ABB, Legrand or eqvt.	No	2.00			
1.116	16-63 Amps TP MCCB 25kA Siemens. ABB, Legrand or eqvt.	No	4.00			
1.117	6-32 Amps TPN MCB 15kA Siemens. ABB, Legrand or eqvt.	No	5.00			
1.118	6,16,25 Amps. SP MCB Siemens,ABB,Legrand or eqvt.	No	2.00			
1.119	Ammeter 0-500A digital.	No	1.00			
1.120	Voltmeter 0-500 v digital.	No	1.00			
1.121	Selector switch	No	2.00			
1.122	CT coil of suitable ratio for panel board.	No	3.00			
1.123	Led Indicator with fuse of suitable colour	No	3.00			
1.124	2.5 - 10 sq.mm Copper Cable Shoe	No	440.00			
1.125	25 sq.mm Copper Cable Shoe	No	32.00			

Construction work
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SL. No.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1.126	Distribution board 12 way TPN made of mild steel sheet double cover push type lock Nepal made flush type suitable size two coat red oxide and two coat enamel paint 14/16 guage sheet,with necessary cable labeling, etc all complete.	Set	2.00			
1.127	16-32 Amps TPN MCB 15KA Siemens ABB,Legrand or eqvt. for main.	No	2.00			
1.128	6,16,25 Amps. SP MCB Siemens,ABB,Legrand or eqvt. for light, power and AC circuit.	No	15.00			
1.129	25,40 Amps (30mA,100,300mA) DP RCCB Siemens,ABB,Legrand or eqvt.	No	6.00			
1.130	2.5 - 10 sq.mm Copper Cable Shoe	No	92.00			
1.131	Distribution board 6 way TPN made of mild steel sheet double cover push type lock Nepal made flush type suitable size two coat red oxide and two coat enamel paint 14/16 guage sheet,with necessary cable labeling, etc all complete.	Set	2.00			
1.132	16-32 Amps TPN MCB 15KA Siemens ABB,Legrand or eqvt. for main.	No	2.00			
1.133	6,16,25 Amps. SP MCB Siemens,ABB,Legrand or eqvt. for light, power and AC circuit.	No	15.00			
1.134	25,40 Amps (30mA,100,300mA) DP RCCB Siemens,ABB,Legrand or eqvt.	No	6.00			
1.135	2.5 - 10 sq.mm Copper Cable Shoe	No	92.00			
1.136	2x2.50 sq mm multi strand flexible cu .wire for light and fan point in 20mm HDPE polythene pipe, etc all complete.	Point	290.00			
1.137	2x4.0+1x1.50 sq.mm multi strand flexible cu wire for power point in 25mm HDPE polythene pipe, etc all complete.	Point	66.00			

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1.138	1 x 4 sq.mm multi strand flexible cu wire for emergency services from Emergency Inverter system to Distribution Board and to each respective junction and switch box in 20mm HDPE polythene pipe (of same light point) etc all complete.	Rm	100.00			
1.139	6 sq.mm 4 core unarmoured copper cable through cable tray, etc all complete. for location refer to cable schedule	Rm	150.00			
1.140	25 sq.mm 4 core unarmoured copper cable through cable tray/ cable trench, etc all complete. for location refer to cable schedule	Rm	35.00			
1.141	Computer socket with box (cat 6), Northwest, Seimens ,Legrand modular, etc all complete.	Set	10.00			
1.142	Un-Shielded Twisted Pair (UTP) Cat 6 networking cable in 20mm HDPE polythene pipe, etc all complete.	Point	10.00			
1.143	High Speed 10/100/1000 Mbps, 24 Port Network Switch, with inbuilt POE, Ubiquiti, Tplink, or equivalent, etc all complete.	Set	2.00			
1.144	Indoor/Outdoor Dual-band Wi-Fi Router having 2.4 GHz Radio Rate and Data transmission rate of 450 Mbps and 5 GHz Radio Rate and transmission rate of 1300 Mbps with a maximum connection of 200 users, with onboard POE Supply. Ubiquiti, Tp-Link, or equivalent, etc all complete.	Set	3.00			
1.145	12U Wall Mount high-quality strong metal Server Rack with anti-corrosion paint compatible for LAN Switch and NVR, with inbuilt dedicated inbuilt power supply rack, and push-type lock, etc all complete. Having dimension of : Depth: 600 mm Width: 600 mm Height : 612 mm	Set	1.00			
1.146	Telephone socket Northwest, Siemens ,Legrand modular or eqvt. etc all complete.	Set	20.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.147	2 pair telephone cable for telephone point in 20mm HDPE polythene pipe.	Point	25.00			
1.148	20 pair telephone cable for main in 25mm HDPE polythene pipe.	Rm	120.00			
1.149	50 Pair Telephone distribution board (DB) made of metal with crown tag double cover etc. all complete.	Set	1.00			
1.150	Supplying ,fixing and interconnecting 8/72 Line EPABX to all telephone socket for telephone extension system, including one set programmable master telephone set of corresponding brand Panasonic, Creative, Matrix or eqvt. all complete	Set	1.00			
1.151	Online ups / Solar Inverter 3 Kva/240 V 1 in 1 out (Phase) for Emergency Backup with inbuilt charge controller having technical specifcation of : Input Voltage : 220V, Frequency: 50/60Hz Input Connection : Single Phase Power Factor : greater than0.99 Output Voltage THD (Total Harmonic Distortion):THDsmaller than1.5Percentage (Linear Load), THDsmaller than5Percentage (Non linear Load) Output Power Factor: 0.9 Battery Voltage +/- 24VDC Hitachi or equivalent, etc all complete.	Nos.	1.00			
1.152	Online ups / Inverter 30 Kva 3 Phase input and 3 Phase Output having techincal specification of Input Voltage : 380/400/415V (Line To Line), Frequency: 50/60Hz Input Connection : 3Ph+N+PE Power Factor : greater than0.99 Output Voltage THD (Total Harmonic Distortion):THDsmaller than1.5 percentage (Linear Load), THDsmaller than5Percentage (Non linear Load) Output Power Factor: 0.9 Battery Voltage +/- 240VDC Hitachi or equivalent, etc all complete.	Nos.	1.00			

Construction work CPV: 45000000-7 - Construction work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.153	12v, 200AH C20 Inverter Tubular battery, Exide,Luminous, or equivalent, etc all complete.	Nos.	5.00			
1.154	200 Watt Solar Panel having following techincal specification: a. Maximum power current (Imp) = 8.13 Amps b. Open Circuit Volatage = 24.56 Volts , with proper mounting frame etc all complete.	Nos.	5.00			
1.155	Battery stand and Box with necessary connection and having good air flow deigned etc all complete.	Set	5.00			
1.156	2x10.0 sq mm multi strand flexible cu .wire for internal battery connection to inverter in 25mm HDPE polythene pipe, etc all complete.	Rm.	50.00			
1.157	4 MP HD Lens Dome Type Camera having CMOS Lens, inbuilt POE, IR LED, IR range (28m), 3.6mm lens POE	Set	3.00			
1.158	4 MP HD Lens Bullet Type Camera having CMOS Lens, inbuilt POE, IR LED, IR range (28m), 3.6mm lens POE	Set	3.00			
1.159	16 channel dual stream video compression, support IP Camera with adaptive access, turbo HD NVR, etc all complete.	Set	3.00			
1.160	4 TB NAS NVR Hard disk,5900 rpm, 600,000 load/unload cycles, 1 million hours MTBF, max 8760 hours power on time, and 4.8W power usage. Toshiba, Seagate, etc all complete.	Set	2.00			
1.161	Cat 6 Un-Shielded Twisted Pair (UTP) networking cable in 20mm HDPE polythene pipe, etc all complete.	Rm	100.00			
1.162	19 inch HD LED Monitor, Samsung, HikVison, Acer, or equivalent, etc all complete.	Set	1.00			
1.163	Lightning Rod copper conductor Air Termination Set, etc all complete.	Set	1.00			

Construction work CPV: 45000000-7 - Construction work						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.164	Supply of 90 Sq.mmPVC insulated stranded flexible copper cable through 2inchdia 4 mm wall thickness FRP tube with saddles and fxing.	Rm	35.00			
1.165	Supply installation, interconnection, testing and putting in to operation of earth station as per IS 3043. Complete with all fixing materials, including testing And commissioning of maintenance free Chemical earthing of Dual Pipe technology. 2 meter long with Outer dia. of 76 mm and inner dia of 38 mm with 80-100 micron galvanization . The Earthing Electrode shall be placed inside the removable perforated PVC Pipe of required thickness, diameter and length. Earthing electrode to be filled with the highly conductive material and shall be backfilled with Dry loose soil throughout the Electrode. 25 Kg earth enhancing compound per earth pit shall be mixed with water and poured inside the pit. The Cement concrete of 50 mm thickness shall be made above the earth pit . The Chemical compound should be tested and certified by BIS accredited laboratory. Ph value should be 7.5. This includes supply and fixing of watering pipe and strip 20x3 mm brought out up to ground level. Manhole of 250x250x300 mm shall be made for earthing pits. Refer Earthing Diagram for details.	Set	3.00			
1.166	Supply, Installation, testing, commissioning and putting into operation of 200x50x6 mm GI Earth Bar with 14 mm dia holes(stud) of suitable numbers complying the number of Earth strips to be connected to Earth Bar. The Earth Bar shall be housed in enclosure made of Bricks. The enclosure and front cover plate shall be made from SS 304 of 370x370x3 mm. The whole assembly shall be concealed in such a way that the SS 304 front cover plate is properly aligned and flush with the SS 304 Box. The SS 304 Cover Plate and enclosure shall be matt finish. Earthing Diagram for details.	Set	3.00			
1.167	Fiber Glass covered 25mmx3mm copper strip for earth continuity from panel board ,lift ,generator to earthing site etc all complete.	Rm	35.00			

Total Item Price	
VAT (13.00%)	
Grand Total	