स्थायी लेखा नं.: २०१२९६१९०
कार्यालय कोड नं.: ८०१०५१२८

ठाकुरबाबा नगरपालिका
Thakurbaba Municipality

☎९८५८०७२१११

नगर कार्यपालिकाको कार्यालय

Office of the Municipal Executive

(Google Plus Code: C8RJ+C6 Neulapur)

सैनवार, बाँदिया
Sainawar, Banke

लुम्बिनी प्रदेश, नेपाल
Lumbini Province, Nepal

विषय: दरभाउपत्र पेश गर्ने सम्बन्धि सार्बजनिक सूचना ।

(सूचना प्रकासन मिति: २०८०/११/२९)

प्रस्तुत विषयमा यस कार्यालयबाट तत्काल ठाकुरबाबा नगर अस्पतालको इलेक्ट्रिकल इन्जिनियरिंग परामर्श सेवा खरिद गर्नुपर्ने भएकोले यस पत्रसाथ सम्लग्न TOR र BOQ बमोजिमको काम के कति दररेटमा गर्न सकिने हो ७ दिन भित्र दरभाउपत्र तपसिल बमोजिमको कागजातसहित पेश गर्नु हुन जानकारी गराइन्छ ।

तपसिल:

१) व्यवसाय दर्ता प्रतिलिपि

२) स्थाई लेखा नम्बर दर्ता प्रमाणको प्रतिलिपि

३) अ. बा २०७९/८० को कर चुत्ता प्रमाणपत्रको प्रतिलिपि

४) नगरपालिकामा स्कृति भएको प्रमाण पत्र वा स्कृति हुनलाई निबेदन

५) नेपाल इन्जिनियरिंग परिषदद्वरा जारि गारिएको इलेक्ट्रिकल इन्जिनियरिंग लाइसेन्स

६) कम्तिमा पाँच वर्षा इलेक्ट्रिकल इन्जिनियरिंग निर्माण संग सम्बन्धित अनुभबपत्र

२०८०।९।२९

रामहरि रिजाल
प्रमुख प्रशासकीय अधिकृत

Thakur Baba Municipality
Office of the Muncipal Executive
Sainawar Bardiya
Bill of Quantity

Project Name :- Hiring of Electrical Engineering Consultancy Service in Thakurbaba Nagar Hospital Building Construction Works (MG/W/NCB/TBNP-12/2077-078)

Location:- Thakurbaba Municipality, Bardiya

Types Of Work:- Electrical Works in Building Construction

F/Y 2080/81

Bajet Sub-head

SN.	Descripation of Works	Unit	Quantity	Rate(Rs)		Amount (NRs)	Remarks
				Rate in figure	Rate in Words		
1	Providing Electrical Engineering Consultancy Service in Thakurbaba Nagar Hospital Building Construction Works (MG/W/NCB/TBNP-12/2077-078)	JOB	1				
					Total Without Vat		
					Vat		
					Grand Total		

ठाकुरबाबा नगरपालिका
नगर कार्यपालिकाको कार्यालय
सैनवार, बर्दिया
लुम्बिनी प्रदेश, नेपाल
(स्था: २०७३)

THAKURBABA MUNICIPALITY

OFFICE OF MUNICIPAL EXECUTIVE

SAINWAR, BARDIYA

Terms of Reference (TOR)

For

Hiring of Electrical Engineering Consultancy Service in Thakurbaba Nagar Hospital Building Construction Works (MG/W/NCB/TBNP-12/2077-078)

Thakurbaba Municipality

sainwar, Bardiya

Fiscal Year 2080/81

ठाकुरबाबा नगरपालिका
नगर कार्यपालिकाको कार्यालय
नैनवार, बर्दिया, नेपाल
लुम्बिनी प्रदेश, नेपाल

Terms Of Reference (ToR) For Hiring of Electrical Engineering Consultancy Service in Thakurbaba Nagar Hospital Building Construction Works (MG/W/NCB/TBNP-12/2077-078)

1. Background

Thakurbaba Municipality is developing a Thakurbaba nagar hospital facility for the people of thakurbaba municipality in Thakurbaba ward no. 3, Neulapur, Bardiya. The estimated cost of this project is Rs **176836547.81** in which electrical cost estimate is 20652251.87 which upon biddibg process total cost is 124302385.3 and electrical cost is 11619500. This project is complex in nature due to highly complicated Electrical System large size project. Due to Complexity in Project, we need highly Expertise service in this project because we didn't have manpower like that.

2. Objective

The primary objective for hiring this service is to provide expert guidance, technical oversight, and project management support for the construction of a Thakurbaba Nagar Hospital in electrical works.

3. Scope of Work

The consultant's responsibilities will include, but not be limited to:

3.1. Construction Phase

- Study the Design, Drawing, Specification and BOQ of this Project.
- Supervise and monitor the construction activities regarding electrical item to ensure compliance with approved plans, design and specifications and quality.

3.2. Post-Construction Phase

- During Defect Liability Period (DLP) if any defect is seen the consultant should give technical advice for maintenance.

4. Deliverables

The consultant is expected to deliver the following:

- Any Written direction, instruction to contractor which regarding to Quality as per Contract Document
- Contractors Bill Regarding Electrical item for Approval.
- Approval of as Build Drawing proposed by contractor.

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रामहरि रिजाल
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ठाकुरबाबा नगरपालिका
नगर कार्यपालिकाको कार्यालय
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लुम्बिनी प्रदेश, नेपाल
(स्था: २०७३)

5. Timeline

The expected duration of electrical items of work is 6 months but consultant is assumed to minimum 3 visit with total minimum 9 full days

6. Qualifications

The consultant should have the following qualifications:

- Electrical Engineer with minimum 5 years working experience and at least one project experience having Electrical item in any large projects

7. Reporting and Communication

The consultant will report to Thakurbaba Municipality Office, Sainawar, Bardiya and will maintain regular communication regarding project progress with every visit .

8. Confidentiality

The consultant shall maintain confidentiality regarding all project-related information.

10. Mode of Payment

The Fee of the consultant will be paid after every IPC of contractor for electrical construction Item in ratio of IPC amount to Project cost (Agreement Amount).

11. Contact Information

For inquiries or additional information, please contact:

Ram Hari Rijal, Chief Executive officer:- 9851253351,thakurbabamun@gmail.com

Gyan Bahadur Tharu, Engineer:- 9844822687, engineering.thakurbabamun@gmail.com

Thakurbaba Municipality office,

Sainawaar, Bardiya.

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ठाकुरबाबा नगरपालिका
नगर कार्यपालिकाको कार्यालय
तिनवार, धनुषा, नेपाल

BOQ

S.N.	Item details	Unit	Quantity
1	11 KV Supply Intake System: 'Supply and installation of double pole HT structure for 11 kV supply intake with 2 nos of 11 m high steel tubular pole with necessary steel hardware as per drawing and specifications	Set	1
2	Supply, installation, testing and commissioning of 400 KVA, 11 KV/ 415V, 3 phase, 50 Hz delta/star connected, H-Pole mounted, out door type, transformer, oil immersed ONAN cooled, complete with all fittings such as oil conservator, silica gel breather, thermometer, explosion vent, OFF load tap changer (OLTC) with -15 % to +5 %, tappings in the step of 1.25%, bidirectional roller, diagrams & rating plate, Magnetic Oil gauge, Oil temperature indicator, Winding temperature indicator, lifting lugs, first filling of oil, including 10% extra oil in non returnable drum for topping up as required. (Make - NEEK or equivalent)	Set	1
3	Supply and installation of 11 kV insulated Conductor from nearest NEA tapping point.	Rm	50
4	NEA Connection and Service charge	LS	1
5	1 no. Danger Board 400 mm x 250 mm made of mild steel atleast 2 mm thick and vitreous enameled white on both sides and with inscription in signal 'red colour with skull and bone' on front side as required.	Nos	1
6	Standby Power Supply Generator: 'Fully enclosed, super silent, 3 phase 400 volts (line to line) 231 volt (line to neutral) 50 cycle per second, 1500 RPM prime duty, water cooled Diesel Generator set. The engine with turbo charger, flywheel to suit flexible coupling with guard, air cleaner, blower fan, heat exchanger, fuel pump, variable speed electronic governor, fuel filter, lube oil filter and pump, primary water circulating pumps, battery charger, 24 volt lead acid automotive type batteries of compatible capacity. The alternator shall be self excited, self regulated, brushless and rated for 160kVA at 0.8 P.F., 3 phase 400 volts, 50 cycle per second, 4 wire system and shall be provided with static excitation unit. DG set shall equipped with inbuilt AMF (Engine: Perkins, Volvo or equivalent subjected to prior approval.		1
7	Change Over Panel	set	1
8	Main Panel Board (MPB)	Set	1
9	Ground Floor DB(SDB-PG1-EPG1-GF) - Sec A	Set	1
10	(SDB-PG2-EPG2-GF) - Sec A	set	1
11	Sec B (DR-PG2-EPG2-GF)	set	1
12	(SDB-PG3-EPG3-GF) Sec A	set	1
13	Sec B (DB-OR-PG3-EPG3-GF)	set	1
14	Sec B (DB-XR-PG3-EPG3-GF)	set	1
15	Sec B (DB-PAT-PG3-EPG3-GF)	set	1
16	First Floor (SDB-PG1-EPG1-FF) - Sec A	set	1
17	Sec B - (SDB-PG2-EPG2-FF)	set	1
18	Sec C - (DB-OT-EPG2-FF)	set	1
19	Second Floor (SDB-PG1-EPG1-SF)	set	1
20	Kavar Panels	set	1
21	Server DB 1 & 2 : Sec B	Set	3
22	Pump Panel - Sec A	set	1
23	Fire Pump Panel - Sec A	Set	1
24	Supply , installation and testing of Cables from Transformer to Changeover Panel to Main Panel Board with 3Rx3.5cx185 sq. mm 'AL' Arm. Cable including cable shoes, clamp , support etc.to be laid under ground/ cable ladder/cable trench .	r.m.	190
25	Supply , installation and testing of Cables from 160 KVA Generator to Change over with 1x3.5cx185 sq. mm 'AL' Arm. Cable including cable shoes, clamp , support etc.to be laid under ground/ cable ladder/cable trench .	r.m.	150
26	Supply , installation and testing of Cables from 250 KVA Generator to Change over with 2x3.5cx150 sq. mm 'AL' Arm. Cable including cable shoes, clamp , support etc.to be laid under ground/ cable ladder/cable trench .(Revised)	r.m.	60

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रामहरि रिजाल
प्रशासकीय अधिकृत

ठाकुरबाबा नगरपालिका नगर कार्यपालिकाको कार्यालय तिनाउ, बुटवल, लुम्बिनी प्रदेश, नेपाल

BOQ

S.N.	Item details	Unit	Quantity
27	Supply , installation and testing of Cables from Main Panel Board (MPB) to Floor DB (SDB-PG1-EPG1-GF) with 4cx10 Sq. mm Cu. arm. Cable and 6 sq. mm Cu wire through 20 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	45
28	Supply , installation and testing of Cables from Main Panel Board (MPB) to Floor DB (SDB-PG2-EPG2-GF) with 4cx16 Sq. mm Cu. arm. Cable and 10 sq. mm Cu wire through 20 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m,	45
29	Supply , installation and testing of Cables from Main Panel Board (MPB) to Floor DB (SDB-PG3-EPG3-GF) with 4cx25 Sq. mm Cu. arm. Cable and 16 sq. mm Cu wire through 25 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	40
30	Supply , installation and testing of Cables from Floor DB (SDB-PG2-EPG2-GF) to sub DB(DR-PG2-EPG2-GF) with 4cx10 Sq. mm Cu. arm. Cable and 6 sq. mm Cu wire through 25 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	35
31	Supply , installation and testing of Cables from Floor DB (SDB-PG3-EPG3-GF) to sub DB(0R-PG2-EPG2-GF) with 4cx4 Sq. mm Cu. arm. Cable and 4 sq. mm Cu wire through 16mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	40
32	Supply , installation and testing of Cables from Floor DB (SDB-PG3-EPG3-GF) to sub DB(XR-PG3-EPG3-GF) with 4cx16 Sq. mm Cu. arm. Cable and 10 sq. mm Cu wire through 25 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	35
33	Supply , installation and testing of Cables from Floor DB (SDB-PG3-EPG3-GF) to sub DB(PAT-PG3-EPG3-GF) with 4cx6 Sq. mm Cu. arm. Cable and 4 sq. mm Cu wire through 25 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	40
34	Supply , installation and testing of Cables from Main Panel Board (MPB) to Floor DB (SDB-PG1-EPG1-FF) with 4cx10 Sq. mm Cu. arm. Cable and 6 sq. mm Cu wire through 20 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	22
35	Supply , installation and testing of Cables from Main Panel Board (MPB) to Floor DB (SDB-PG2-EPG2-FF) with 4cx16 Sq. mm Cu. arm. Cable and 6 sq. mm Cu wire through 20 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	24
36	Supply , installation and testing of Cables from Floor DB (SDB-PG2-EPG2-FF) to DB-OT-PG2-EPG2-FFwith 4cx4 Sq. mm Cu. arm. Cable and 2.5 sq. mm Cu wire through 16 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	50
37	Supply , installation and testing of Cables from Main Panel Board (MPB) to Floor DB (SDB-PG1-EPG1-SF) with 4cx10 Sq. mm Cu. arm. Cable and 6 sq. mm Cu wire through 25 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	18
38	Supply , installation and testing of Cables from Main USB Panel Board (U-MPB) to Floor DB (SDB-PG1-EPG1-GF) with 3cx1.5 Sq. mm Cu. arm. Cable wire through 16 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	45
39	Supply , installation and testing of Cables from Main USB Panel Board (MPB) to Floor DB (SDB-PG2-EPG2-GF) with 3cx6 Sq. mm Cu. arm. Cable through 16 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m,	45
40	Supply , installation and testing of Cables from Main USB Panel Board (MPB) to Floor DB (SDB-PG3-EPG3-GF) with 4=3cx4 Sq. mm Cu. arm. Cable through 16 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	40

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रामहरि रिजाल
प्रमुख प्रशासकीय अधिकृत

ठाकुरबाबा नगरपालिका
नगर कार्यपालिकाको कार्यालय
सैमारा, बर्दिया, नेपाल
लुम्बिनी प्रदेश

BOQ

S.N.	Item details	Unit	Quantity
41	Supply , installation and testing of Cables from Floor DB (SDB-PG2-EPG2-GF) to sub DB(DR-PG2-EPG2-GF) with 3cx4 Sq. mm Cu. arm. Cable through 25 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	35
42	Supply , installation and testing of Cables from Floor DB (SDB-PG3-EPG3-GF) to sub DB(DR-PG2-EPG2-GF) with 2cx6 Sq. mm Cu. arm. Cable through 16mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	40
43	Supply , installation and testing of Cables from Floor DB (SDB-PG3-EPG3-GF) to sub DB(XR-PG3-EPG3-GF) with 2cx4 Sq. mm Cu. arm. Cable through 20 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	35
44	Supply , installation and testing of Cables from Floor DB (SDB-PG3-EPG3-GF) to sub DB(PAT-PG3-EPG3-GF) with 2cx4 Sq. mm Cu. arm. Cable through 16 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	40
45	Supply , installation and testing of Cables from Main Panel Board (MPB) to Floor DB (SDB-PG1-EPG1-FF) with 3cx10 Sq. mm Cu. arm. Cable and Through 20 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	22
46	Supply , installation and testing of Cables from Main Panel Board (MPB) to Floor DB (SDB-PG2-EPG2-FF) with 3cx6 Sq. mm Cu. arm. Cable and through 16 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	24
47	Supply , installation and testing of Cables from Floor DB (SDB-PG2-EPG2-FF) to DB-OT-PG2-EPG2-FFwith 2cx6 Sq. mm Cu. arm. Cable through 16 mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	50
48	Supply , installation and testing of Cables from Main Panel Board (MPB) to Floor DB (SDB-PG1-EPG1-SF) with 3cx2.5 Sq. mm Cu. arm. Cable and 16mm HDPE Conduit and Cable Tray including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	18
49	Supply , installation and testing of Cables from Main Panel Board (MPB) to KVAR Panel with 3cx185Sq. mm Cu. arm. Cable and 16sq. mm Cu wire through HDPE Conduit including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	12
50	Supply , installation and testing of Cables from Main Panel Board (MPB) to HVAC Panel with 3.5cx185 Sq. mm Cu. arm. Cable and 150sq. mm Cu wire through 100 mm PVC pipe/Conduit and cable trayincluding cable shoes, clamp , support etc. to be laid on cable ladder .	Mtr.	40
51	Supply , installation and testing of Cables from Main Panel Board (MPB) to UPS to UPS DB with 4cx25 Sq. mm Cu. arm. Cable and 10sq. mm Cu wire through 20 mm HDPE Conduit including cable shoes, clamp , support etc. to be laid on cable ladder .	Mtr.	40
52	Supply , installation and testing of Cables from Main Panel Board (MPB) to Pump panel and Fire Pump Panel with 4cx4 Sq. mm Cu. arm. Cable and 2.5 sq. mm Cu wire through 16 mm HDPE Conduit including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	50
53	Supply , installation and testing of Cables from Main Panel Board (MPB) to Lift with 4cx16 Sq. mm Cu. arm. Cable and 6 sq. mm Cu wire through 16 mm HDPE Conduit including cable shoes, clamp , support etc. to be laid on cable ladder .	r.m.	30
54	Light/Fan Point Wiring	point	912
55	Power Point Wiring - Single Socket Type	point	361
56	Power Point Wiring -Double socket types	point	75
57	Power Point Wiring -BHU	point	67
58	Power Point Wiring -SFP	point	7
59	1x40W Recess/surface Mount type LED light fixtures	no.	35
60	1x24W Recess/surface mount type LED light fixtures	no.	92
61	1x18/16W Recess/surface mount type LED light fixtures	no.	368
62	1x12 W Recess/surface mount type LED light fixtures	no.	77
63	1x6 W Recess/surface mount type LED light fixtures	no.	58

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रामहरि रिजाल
प्रमुख प्रशासकीय अधिकृत

ठाकुरबाबा नगरपालिका
नगर कार्यपालिकाको कार्यालय
सैनवार, बर्दिया
लुम्बिनी प्रदेश नेपाल

BOQ

S.N.	Item details	Unit	Quantity
64	9 W LED wall light	no.	32
65	22/18 W LED Tube light fixtures	no.	47
66	6W LED Mirror light	no.	34
67	6W LED bulkhead light/wall mount light	no.	58
68	3watt Led Exit Way Indicating Light	no.	25
69	300W OT Pendent Light	no.	3
70	200W OT Pendent Light	no.	1
71	1200 mm dia Ceiling Fan	no.	67
72	300 mm dia exhaust fan with louver opening	no.	22
73	1x10A/13 A Flat Pin Switched Socket	nos	313
74	2x10A/13 A Flat Pin Switched Socket	nos	55
75	1x16A/20 A Flat Pin Switched Socket	nos	24
76	2x16A/20 A Flat Pin Switched Socket	nos	6
77	Supply and installation of UNIFY Openscape business X8 PABX of Convergence system [expandable to 500 Digital + analog + IP Extensions] (Make: SIEMENS or equivalent)	Set	1
78	Supply, installation of telephone 100 pair poyet crone connector at Ground Floor .	set	1
79	Supply, installation of telephone junction box including 100 pair poyet crone connector.	set	1
80	Point wiring from Telephone Junction box to individual telephone points with 2 pair/4pair Telephone wires in HDPE Conduit laid under floor , ceiling /wall including terminations at both ends and providing marking ferrules / sleeves.(Note: average length of per point = 15 mtr.)	set	94
81	Supply, laying and installation of 100 pairs telephone cable from MDF at ground floor to Floor Telephone box, inclusive of necessary conduits , cable ties, clamp etc.	point	145
82	Supply and installation of RJ11 Telephone outlets in metal box including terminations.(Telephone Outlet Make : Legand, Schneider, Clipsal-C-VIVACE or equivalent)	r.m.	94
83	TV Point wiring from TV Junction Box to individual TV points with 1 nos RG-6 Co-axial Cu wire in HDP pipe laid under floor , ceiling /wall including terminations at both ends and providing marking ferrules / sleeves excluding Outlet.(Note: average length of per point = 15 mtr.)	nos.	16
84	Supply and installation of TV outlets in metal box including terminations.(Data outlet Outlet Make : Legand, Schneider, Clipsal-C-VIVACE or equivalent)	point	16
85	Operator set Unify Openstage 40T with 12 keys BLF		1
86	Digital Display set Unify Openstage 15T HFA	set	4
87	Digital Display IP set Unify Openstage 15T	set	10
88	Single Line Telephone Set for Normal Extension	set	95
89	Supply , installation and testing of 24 Ports 10/1000 Base Unmanaged switch with rack , patch panel complete set.	set	7
90	Supply installation testing of 6 pair fiber optical cable.	r.m.	276
91	Optical termination unit suitable for 6 pair optical cable inclusive of splicing works	set	7
92	Wiring for computer outlets with CAT 6 , 4 pair , computer cable in HDPE conduit laid under floor / wall / ceiling or tagged on furniture.(Note: average length per point =20 mtr.)	point	94
93	Supply and laying of CAT 6 , 4 pair , cable from server room to Switcher / Junction Box in HDPE conduit through floor / wall / ceiling and ducts	mtr.	45
94	Supply and installation of wireless hub for wireless networking purpose.(Make: D-Link, Cissco or equivalent)	set	7
95	CAT 6 , 4 PAIR , compatible RJ45 Computer Socket(Make :Legrand/Schneider/Clipsal-C-VIVACE or equivalent)	no.	94
96	Supply and installation of following 19 inch rack for ethernet switches with A.C. distribution box, wire manager, fan tray, lockable front tinted glass door and two pair angle to support the switch installed in the rack- 18 U Rack	Set	1
97	Wiring for CCTV with CAT6A Cables inside HDPE conduit of size 20/25 mm. dia. including cable clamps and necessary as per the drawings, site conditions, specifications and instruction all complete.	Points	69

प्रदीप कुमार साह
सब-इन्जिनियर

इ. ज्ञान बहादुर थारू
...C. १८४२९ 'सिगिल' 'क' वर्ग

समहरि रिजाल
प्रमुख प्रशासकीय अधिकृत

ठकुरबाबा नगरपालिका
नगर कार्यपालिकाको कार्यालय
लैनवार, बर्दिया
लुम्बिनी प्रदेश, नेपाल

BOQ

S.N.	Item details	Unit	Quantity
98	1/2.9" 2Megapixel progressive CMOS, H.264+ & H.264 dual-stream encoding, 25/30fps @1080P (1920×1080), DWDR, Day/Night (ICR), 3DNR, AWB, AGC, BLC, Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS, 2.8 mm fixed lens (3.6mm optional), Max IR LEDs Length 30m, IP67, PoE	Set	2
99	1/2.9" 2Megapixel progressive CMOS, H.264+ & H.264 dual-stream encoding, 25/30fps @2M (1920x1080), DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC, Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS, 2.8 mm fixed lens (3.6 mm optional), Max IR LEDs Length 30m, IP67, IK10, PoE	Set	65
100	> H.264+/H.264 codec decoding > Max 200Mbps Incoming Bandwidth > Up to 5MP Resolution for Preview and Playback > HDMI/VGA/TV simultaneous video output > Support IPC UPnP, > Support ANR technology to enhance the storage reliability when the network break down >8 TB HDD	Set	3
101	43 Inch Flat HD TV	Set	6
102	Supply and Installation of 24-ports, rack mounted, High-impact, flame retardant,thermoplastic or Powder-coated steel, 22/24 AWG, CAT 6a RJ-45 patch panel for Data as per specification.	Set	1
103	16-Port 2 nos and 8 port e 2nos Desktop Gigabit PoE Switch - 16 Ports - 10/100/1000 Base -T - 2 Layer Supported - Wall Mountable IEEE 802.3, 802.3u, 802.3x, 802.3ab,802.3az, 802.3af, and 802.3at (PoE+) Full line rate and forwarding rate of 64B frame at: 1.488 Mpps for 1000M port, 0.1488 Mpps for 100M port, 0.01488Mpps for 10M port	Set	4
104	UL listed Intelligent Addressable Rate of Rise Heat detectors with blinking LED and standard base, being capable of being addressed electronically. Manual Addressing (Dip/ Rotary Switches) not acceptable. Make: Edwards/Anusul/notifier or equivalent)	Nos	4
105	UL listed Intelligent Addressable Smoke detector, optical type with blinking LED and standard base, being capable of being addressed electronically. Manual Addressing (Dip/ Rotary Switches) not acceptable.(Make: Edwards/Anusul/notifier or equivalent)	Nos	136
106	UL Listed Intelligent Addressable Double action manual pull station, capable of being addressed electronically. Manual Addressing (Dip/ Rotary Switches) not acceptable, complete as required.and as per specifications.	Nos	20
107	UL Listed Fire Alarm Hooter (sound output of minimum 90 dB upto a distance of 30 meters) cum Strobe (Selectable 15, 30, 75, or 110 cd), made Addressable with the help of Intelligent Addressable Signal Module (cost of the Module to be included), capable of being addressed electronically. Manual Addressing (Dip/ Rotary Switches) not acceptable, with separate power supply arrangement complete as required.(Make: Edwards/Anusul/notifier or equivalent)	Nos	16
108	Supply, installation, testing & commissioning of microprocessor based for below mentioned loops Networkable Analogue addressable type fire alarm control panel with 2x80 character LCD display capable of catering to the detectors and devices . The panel should be equipped with single loop with 15% spare capacity in each loop. Each loop shall have a minimum capacity of 125 addressable detectors & 125 addressable devices.Panel shall maintain a history file of the last 2000 events, 240 volts AC power supply, automatic battery charger, 24 volts sealed lead acid maintainence free batteries sufficient for 24 hours normal working and then be capable of operating the system for 1 hours during an emergency conditions, rectifier, Loop cards, Keypad operation, built in/ external printer to log all incomming data etc as required.The Panel shall have its own integrated PA System having amplifiers suitable for given no. of speaker & minimum 8 channels. The panel shall be provided with communication card for third party integration. (Make: Edwards/Anusul/notifier or equivalent)	Set	1
109	UL Listed 4W Ceiling Mounted speaker With Gril and with capacity to have 1/4,1/2,1 and 2 watt tapping, working at 83dB compatible with amplifier complete as required.(Make: Edwards/Anusul/notifier or equivalent)	no.	91
110	2 x 1.5 sq mm PVC sheathed copper conductor 1100 volts grade flexible FRLS wires of approved make in concealed or surface mounted 20mm dia GI conduit including fixing, supporting, saddling and flexible conduit etc complete in all respect.(cable make polycab and Conduit make AKG)	r.m.	750

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NEC १८५२९ सिभिल "क" वर्ग

रामहरि रिजाल
प्रमुख प्रशासकीय अधिकृत

ठाकुरबाबा नगरपालिका
नगर कार्यपालिकाको कार्यालय
तिनवार, बाँदिया
लुम्बिनी प्रदेश, नेपाल
(स्था. २०७३)

BOQ

S.N.	Item details	Unit	Quantity
111	Supply , laying and testing of speaker point wiring with audio cable through 16mm dia. HDPE conduit from PA System to speaker to speaker .	r.m.	200
112	Supply , laying and testing of 12 Zone Call Station With Condenser Microphone, including Zone Selection Button and Busy Indicator	no.	1
113	Supply and installation of 19 inch Rack with Pre-amplifier, Booster Amplifiers for Zones, Mixing Amplifier/AM/FM/TUNER Auxiliary Input Module , Power Supply and Monitoring Module, MicroPhone Input Module, Recording etc	no.	1
114	Supply and installation of " Class A ESE Lightning Protection Device " for building protection as per standard NFC 17-102 . It shall work on Early Streamer Emission principle and shall be made of Stain Less Steel . (Make :LPI, Australia, Alltec ,USA or equivalent)	set	2
115	Supply and installation of 6 meter long 50mm dia. G.I.pipe with clamp, support , stay sets and other necessary hardware for mounting Lightning Protection Device	set	2
116	Supply and installation of digital lightning counter. (Make :LPI, Australia, Alltec ,USA or equivalent)	set	1
117	Supply and installation of down conductor (25mm x 3mm Copper Stripe) from Leader to earthing system with clamp as per drawing.	r.m.	75
118	Maintenance Free earthing	set	2
119	Earthing system including earth works in excavation and back filling as per IS 3043-1966 specifications and instruction such that the earth resistance should not exceed 3 ohm as per Specification and drawings , with following accessories:	set	5
120	Supply , laying and installation of 25X3 Sq.mm Cu Strip or 70 sq mm cu wire as earth conductor from Earth pit to MPB and Generator .	r.m.	100
121	Supply , laying and installation of 16 sq mm cu wire as earth conductor from Earth pit to Telephone/Network/TV communication .	r.m.	50

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