



GOVERNMENT OF PAKISTAN
PAKISTAN PUBLIC WORKS DEPARTMENT

No.EE/KCE&M.I/NIT/PID/711

Karachi, dated: 26-05-2022

INVITATION TO BID

Sealed Tenders are invited from the contractors registered with Pakistan Engineering Council under relevant category on percentage basis on Pak. P.W.D., schedule of rates 2022 and market rate items who possess valid renewal with PEC upto 30th June 2022 and having valid mandatory Electrical License from Electric Inspectorate, Govt. of Sindh up to 31st December 2022. Tender documents can be received from the office of the undersigned during office hours on any working day upto **14th June 2022** with written request on letter accompanied with attested copies of CNIC, SRB, Income tax Registration Certificate as active tax payer (filer) and copy of valid registration of PEC under relevant / appropriate category for all and copy of valid Electrical License from Electric Inspectorate, Govt. of Sindh. Tenders will be issued to the proprietor of the Firm/Company or their legal authorized representatives having registered power of attorney (duly attested). The tenders in sealed cover should be dropped in the tender box kept in the office of the undersigned on **15th June 2022** upto 11:00 A.M. The respective tenders will be opened on the same day at 11:30 A.M in the presence of contractors or their authorized representatives, having registered power of attorney. Other terms & conditions can be seen in the office of the undersigned during office hours on any working day. The tenders will be issued after scrutiny of required documents submitted along with application.

Sr. No.	Name of Work	Amount (Rs.)	Earnest Money Amount	Period of Completion	Cost of Tender (Rs.)
1	RE-IMPROVEMENT OF SUBSTATION-B & RE-PLACEMENT OF OLD MAIN PANEL AT JPMC, KARACHI.	5,138,724	154,500	15 Days	5000
2	PROVISION OF MEDIUM VOLTAGE 11 KV POWER SUPPLY FOR NEW CONSTRUCTED BUILDING OF PHYCHIATRY, BEHAVIORAL SCIENCE, DEPARTMENT OF NEUROLOGY & STROKE UNIT AT SUB STATION D AT JPMC KARACHI (CONNECTION FOR NEW BUILDING)	3,614,270	108,500	10 Days	5000
3	REPAIR / MAINTENANCE OF LT / HT SWITCH ROOM AT MAIN RTO BUILDING SHAHRAH-E-KAMAL ATTATURK KARACHI. (SH-E/M WORKS)	8,265,299	248,000	10 Days	5000
4	REHABILITATION/ RENOVATION OF CENTRIFUGAL PUMPING SETS AT MAIN RTO BUILDING SHAHRAH-E-KAMAL ATTATURK KARACHI. (SH-E/M WORKS)	7,863,322	236,000	10 Days	5000
5	PROVIDING & INSTALLATION OF STREET LIGHTS AT DIFFERENT UN'S AT ORANGI TOWN KARACHI.	50,000,000	1500,000	10 Days	10000
6	PROVIDING & INSTALLATION OF STREET LIGHTS & HIGH MAST POLES AT DIFFERENT UC'S OF DISTRICT EAST AT KARACHI.	5,628,000	169,000	10 Days	5000
7	PROVIDING & INSTALLATION OF HIGH BEAM LIGHTS, STREET LIGHTS, FLOOD LIGHTS & HP DWT PUMPING SET AT ORANGI TOWN KARACHI.	15,200,000	456,000	10 Days	5000

8	PROVIDING & INSTALLATION OF HORIZONTAL WATER BOOSTING PUMP AT ASMA GARDEN UC-28 SECTOR 14-A METRO WILL-3 AT KARACHI.	11,570,000	347,500	10 Days	5000
9	PROVIDING & FIXING OF HPIT LIGHTS & POLES AT FATIMA JINNAH FAMILY PARK AT LINES AREA AT KARACHI.	3,534,000	106,500	10 Days	5000
10	PROVIDING & INSTALLATION OF STREET LIGHTS AT UCs 20 TO 25 AT RANCHOLINE SADDAR TOWN KARACHI.	3,099,000	93,000	10 Days	5000

2nd Schedule:

In case tenders are not sold / opened on the date mentioned above, due to unavoidable/ unforeseen circumstances, 2nd schedule will be followed: -

1. Date of sale : 16th of June 2022.
2. Date / time of receiving : 17th of June, 2022 at 11:00 A.M.
3. Date / time of opening : 17th of June, 2022 at 11:30 A.M.

Sd/-
Executive Engineer
Karachi Central E&M Division No.I
Pak P.W.D., Karachi.

Schedule of Work

NAME OF WORK:- RE-IMPROVEMENT OF SUBSTATION-B & RE-PLACEMENT OF OLD MAIN PANEL AT JPMC, KARACHI.

S.#	DESCRIPTION OF ITEM	QTY	RATE	UNIT	AMOUNT
S:H-I (MARKET RATE)					
1	Dis connection / Dismantalling & Temporary arrangement of Retailed Generator for Emergency power supply on exisiting load of old 1600 Amp re-wireable change over switch	1 Job		P/Job	
2	Dis connection / Dismantalling & Temporary arrangement of Power supply on exisiting loadof old exisiting main panel	1 Job		P/Job	
3	Providing & installing, Testing & commissioning of 2500 Amps T.P ACB (Adjustable) in existing panel complete in all respect(Terasaki/ABB brand).	1 No		Each	
4	Providing & fixing 2500 Amps Copper BusBar copper strip for coupling /termination of given below L.T Panel with fire radiant fibre insulated support including nuts bolts & washer etc complete as required including termination of ACB with main Busbar.	1 job		P/Job	
5	Providing & fixing of 2500/5 amps Split type C.T including connection.	3 Nos		Each	


SH-II PAK PWD CIVIL SCHEDULE RATE 2022

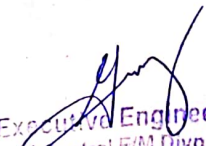
1	Providing & laying 1:48 cement concrete bed under floor using grade stone ballast 1 inches(25mm) and down guage with lelling, ramming, watering and curing etc complete. (P-231,item 9) (1x15'x15'x0'-4"= 74.25 cft)	74.25 Cft		%cft	
2	Supply stacking and filling sand of approved quality from outside sources in foundation trenche, plinth or under floor, etc i/c dressing watering and consolidrtion by ramming in layer not exceeding 9 inches (229 mm) in depth to full compaction and lift upto 5 feet (1.52 m) (P-49 item 9) (1x15'x15'x2'= 450 cft)	450 Cft		%cft	
3	Providing and laying light colour, glazed/ non skid vitrified procelain tiles (Polished exceeding 1600 Sqcm floor, in any floor, laid wih dry bond (Stile biond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quantity as per direction of enineer in charge (Page 255 item 180) (15'-0"x15'-0"=225 Sft)	225 Sft		%Sft	

SH-III PAK PWD E/M SCHEDULE RATE 2022

1 Providing & Fixing Cubical Type metal sheet vermin protected LT panel Board as per drawing with locking arrangement duly powder coated i/c all fastening devices and Electrical wire Leads for internal connection complete as required .	75 Sft	P/Sft
2 Providing & fixing 400 to 630 Amps,(High Breaking Capacity) T.P circuit breaker fixed on existing board , I/c inter-connection as required.	1 No	Each
3 Providing & fixing 250 to 400 Amps,(High Breaking Capacity) T.P circuit breaker fixed on existing board , I/c inter-connection as required.	15 No	Each
4 Providing & fixing 75 to 100 Amps,(Low Breaking Capacity) T.P circuit breaker fixed on existing Boardt, I/c inter-connection as required.	3 Nos	Each
5 Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P Circuit Breaker fixed on existing board , I/c inter-connection as required.	3 Nos	Each
6 Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , I/c inter-connection as required.	3 Nos	Each
7 Providing & fixing Pilot Lamp set fitted on existing board I/c connection as required.	2 Nos	Each
8 Volt Meter 96mm x 96mm (Basic Rate 289+Fixing)	1 No	Each
9 Ampere Meter 96mm x 96mm CT operated 150 to 1000 Amp (Basic Rate 290+ Fixing)	1 No	Each
10 Four way selector switch (Basic Rate 291+ Labour charges)	2 Nos	Each
11 Providing & laying 4 core, 240 mm ² , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor , un armoured, L.T cable in existing all kind of conduit or cable duct as per Pak. P.W.D specification as required.	30 Rft	P/Rft
12 Providing & fixing 4 core, 120 mm ² , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor , un armoured, L.T cable In existing all kind of conduit or cable duct as per Pak. P.W.D specification as required.	20 Rft	P/Rft

13 Providing & laying 4 core, 70 mm ² , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor, unarmoured, L.T cable in existing all kind of conduit or cable duct as per Pak. P.W.D specification as required.	15	Rft	P/Rft
14 Providing & laying 4 core, 25 mm ² , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor, unarmoured, L.T cable in existing all kind of conduit or cable duct as per Pak. P.W.D specification as required.	10	Rft	P/Rft
15 Making termination of 16 mm ² to 25 mm ² , 3 or 4 core armoured/ un-armoured copper conductor PVCX PVC L.T cable including providing& fixing proper lugs, tapping etc as required	2	Job	P/Job
16 Making termination of 70 mm ² to 95 mm ² , 3 or 4 core armoured/ un-armoured copper conductor, PVC X PVC L.T cable including providing& fixing proper lugs etc complete in all respect as required	4	Job	P/Job
17 Making termination of 120 mm ² to 150 mm ² , 3 or 4 core armoured/ un-armoured copper conductor, PVC X PVC L.T cable including providing& fixing proper lugs etc complete in all respect as required	4	Job	P/Job
18 Making termination of 185 mm ² to 240 mm ² , 3 or 4 core armoured/ un-armoured copper conductor, PVC X PVC L.T cable including providing& fixing proper lugs etc complete in all respect as required	4	Job	P/Job
19 Making straight through joint of 120 mm ² , 3 or 4 core armoured, copper conductor L.T cable, complete with heat shrink tubes, ferules, GI flexible Earth net, joint box and compound solution including excavation & back filling as required.	2	Job	P/Job
20 Making straight through joint of 240 mm ² , 3 or 4 core armoured, copper conductor L.T cable, complete with heat shrink tubes, ferules, GI flexible Earth net, joint box and compound solution including excavation & back filling as required.	2	Job	P/Job
21 Providing & fixing Earthing set with 2'x2'x1/4" GI plate buried in the at the depth of 12 feet or less if water come out from the ground level (with salt and charcoal, or Earthing chemical Powder) i/c making the pit 12 feet deep by excavation of all type of soil i/c fixing Of 8SWG copper wire in 1/2' G.I conduit complete in all respect as required.	1	Job	Each

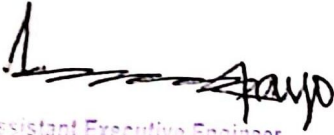

Assistant Executive Engineer
Karachi Central E/M Division No.1
PAK. P.W.D., KARACHI


Executive Engineer
Karachi Central E/M Divn. No.1
Pak. P.W.D., Karachi

Schedule of Work

NAME OF WORK:- PROVISION OF MEDIUM VOLTAGE 11 KV POWER SUPPLY FOR NEW CONSTRUCTED BUILDING OF PHYCHIATRY,BEHAVIORAL SCIENCE,DEPARTMENT OF NEUROLOGY AND STROKE UNIT AT SUB STATION D AT JPMC KARACHI (CONNECTION FOR NEW BUILDING)

S.#	DESCRIPTION OF ITEM	QTY	RATE	UNIT	AMOUNT
SH:1 S/R Item 2022					
1	Providing Fixing , testing & commissioning of HT 11KV ,630A, Transformer Protection VCB Panel , as per Wapda specifications,complete in all respect as approved by tyhe Engineer Incharge.(3-12-01)	1 No.		Each	
2	Providing and laying of HT 11KV ,120mm ² ,3 core standard copper conductor, XLPE insulated, cutape screened PVC bedded and PVC shathed armoured cable laid in existing all kind of pipe cable duct, channel etc as per Pak P.W.D specification as required (without Termination) (1-13-02(g)	105 Rft		P/Rft	
3	Providing & fixing indoor / outdoor 3 core 120 mm to 185 mm 11KV XLPE heat shiring termination ends kit complete in all respect as required (3-14-01 (c)	4 Jobs		P/Jobs	


Assistant Executive Engineer
Karachi Central E/M Division No. 1
PAK. P.W.D., KARACHI


Executive Engineer
Karachi Central E/M Divn. No. 1
PAK. P.W.D., Karachi

Schedule of Work


**NAME OF WORK: REPAIR / MAINTENANCE OF LT / HT SWITCH ROOM AT MAIN RTO
BUILDING SHAHRAH-E-KAMAL ATTATURK KARACHI.
(SH-E/M WORKS)**

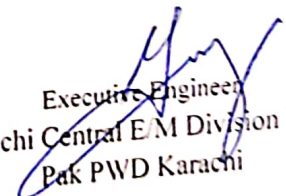
S.No.	Item of Description	Qty	Rate	Unit	Amount
<u>ITEM BASED ON M/R</u>					
1	Replacement of un- serviceable and burnt out 1600 Amps 65 KA (ACB) Triple pole moulded case circuit breaker with new one as per existing size and sample as required. (Terasaki Japan or equivalent)	4	Nos	Each	
2	Replacement of un- serviceable and burnt out 1250 Amps 65 KA (ACB) Triple pole moulded case circuit breaker with new one as per existing size and sample as required. (Terasaki Japan or equivalent)	2	Nos	Each	
3	Replacement of un- serviceable and burnt out UVT 415 volts with new one as per existing size and sample as required. (Terasaki Japan or equivalent)	4	Nos	Each	
4	Replacement of un- serviceable and burnt out Shunt trip 220 volts with new one as per existing size and sample as required. (Terasaki Japan or equivalent)	4	Nos	Each	
5	Replacement of un- serviceable and burnt out Motor mechinisum 220 volts with new one as per existing size and sample as required. (Terasaki Japan or equivalent)	4	Nos	Each	
6	Replacement of un- serviceable and burnt out closing coil 220 Volts with new one as per existing size and sample as required. (Terasaki Japan or equivalent)	4	Nos	Each	
7	Replacement of un- serviceable and burnt out on/off push button gear for ACV with new one as per existing size and sample as required. (Terasaki Japan or equivalent)	1	No	Each	
8	Replacement of un- serviceable and burnt out capacitor 415 volts, 25 KVAR with new one as per existing size and sample as required. (NOKIAN Finland or equivalent)	4	Nos	Each	

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|----|--|---|-----|----------|-------|
| 9 | Replacement of un- serviceable and burnt out capacitor 415 volts, 50 KVAR with new one as per existing size and sample as required. (NOKIAN Finland or equivalent) | 7 | Nos | Each | |
| 10 | Replacement of un- serviceable and burnt out HRC fuses with base 63 Amps with new one as per existing size and sample as required. (DF Spain or equivalent) | 8 | Nos | Each | |
| 11 | Replacement of un- serviceable and burnt out PFI controller six step with new one as per existing size and sample as required. (NOKIAN Finland or equivalent) | 2 | Nos | Each | _____ |
| | | | | Total Rs | |

ITEM BASED ON S/R

- | | | | | | |
|---|---|---|-----|----------|-------|
| 1 | Providing & fixing 160 to 250 Amps (Adjustable - High Breaking Capacity) circuit breaker fixed on existing board, i/c inter-connection as required. (2.71.19) | 5 | Nos | Each | |
| 2 | Providing & fixing 80 to 125 Amps (Adjustable - High Breaking Capacity) circuit breaker fixed on existing board, i/c inter-connection as required. (2.71.18) | 2 | Nos | Each | _____ |
| | | | | Total Rs | |


 Assistant Executive Engineer
 Karachi Central E/M Division No.I
 Pak PWD Karachi


 Executive Engineer
 Karachi Central E/M Division No.I
 Pak PWD Karachi

Schedule of Work

**NAME OF WORK: REHABILITATION/ RENOVATION OF CENTRIFUGAL PUMPING SETS
AT MAIN RTO BUILDING SHAHRAH-E-KAMAL ATTATURK KARACHI.
(SH-E/M WORKS)**

S.No.	Item of Description	Qty	Rate	Unit	Amount
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ITEM BASED ON M/R

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|---|---|-----|------|-----------------------|
| 1 Providing & fixing centrifugal P/set complete with AC 75 HP 2900 RPM 380/400 volts AC supply complete with centrifugal pump having 6x6 suction & discharge coupled on a common base plate as reqd (Siemens,KSB Grund Fos) (flow 450 GPM, 300 ft head HMA) | 2 | Nos | Each | |
| 2 Errection & commissioning of Etanorm Horizontal / Centrifugal pump type 150-315 with (75 HP) along with manufacturing & fabrication of basement garder 8"x4" including R.C.C foundation ration 1:2"4 complete in all respect as per site requirement & instruction of Engineer incharge | 2 | Nos | Each | |
| 3 Providing & fixing motor control board for electric continious rating comprising of star delta starter AM meter, volt meter selector switch CTS phase indicator, overhead protection time relay, push button, complete in all respect as per requirement & instruction of Engineer incharge (for 75/100 H.P), i/c 1-400 Amps TP, 3-400 Amps, LT & Digital Amps Meter etc. | 1 | No | Each | |
| 4 C.I Sluice value heavy pattern (Test presure 21.0 kg per Sq. Com or 300 LB / Sq. Inch) (Imported) 10" dia. | 1 | No | Each | |
| 5 Making connection delivering pipe line to main fold & existing rising main including welding fabricating as per site requirement & instruction of Engineer incharge | 1 | No. | Each | |
| | | | | Total Rs _____ |

ITEM BASED ON S/R

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|--|----|-----|-------|--|
| 1 Providing & fixing G.I pipe 4" dia 10 SWG with special such as flanges, bend, Tee, union and socket etc for suction and delivery line etc i/c painting Two coats with white zinc paint with pigment to match the colour of Other components as required. (5.5.9) | 25 | Rft | P.Rft | |
| 2 Providing & fixing 4" dia C.I flange type gate valve imported make .(5.6.16) | 1 | No | Each | |
| 3 Providing & fixing 4" dia non return valve complete in all respect. (5.9.2) | 1 | No | Each | |
| 4 Providing & fixing 4" dia brass foot valve complete with kit local make .(5.7.7) | 1 | No | Each | |

5 Providing G.I pipes, specials and clamp etc. including fixing cutting and fitting complete with and including the cost of breaking through walls and roof, making good etc. painting 2 coats after cleaning the pipe etc. with white zinc paint with pigment to match the colour of the building and testing with water to a pressure head of 200 feet (61 M) and cartages within 10 miles (16.09 km)(ILLM) 6" inches (150 mm) dia pipe


30 Rft

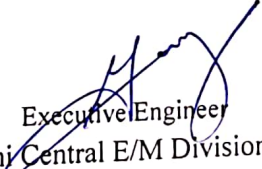
P.Rft

6 Providing and fixing Earthing set with 2'x2'x1/4" copper plate buried in the ground at a depth of 12 feet or less if water comes out from the ground level (with salt and charcoal, or Earthing chemical Powder) etc making the pit 12 feet deep by excavation of all type of soil (except soft or hard rock) i/c fixing of 8 SWG copper wire in 1/2 " G.I conduit complete in all respect as required. (3-8-2)

1 Job

P.Job _____
Total Rs


Assistant Executive Engineer
Karachi Central E/M Division No.I
Pak PWD Karachi

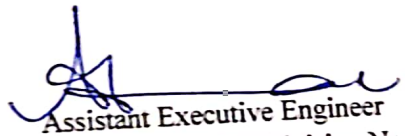

Executive Engineer
Karachi Central E/M Division No.I
Pak PWD Karachi

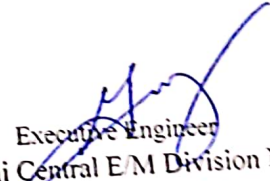
Schedule of Work

NAME OF WORK:- PROVIDING & INSTALLATION OF STREET LIGHTS AT DIFFERENT UN'S AT ORANGI TOWN KARACHI.

S.#	Item of Work	Qty	Rate	Unit	Amount
ITEM BASED ON M/R					
1	Providing & erecting M.S Tabular pole 10 SWG with foundation plate 18"x18" square shape, pole height 30 feet long having size (20'.6"+5'.5"+5'.4") duly painted with anti corrosive paint & two coat enameled paint. The job include construction of concrete foundation 1:2:4 ratio upto 5 feet deep foundation, 2 feet height collar from the ground level duly plastered etc. as and approved by the Engineer incharge	5 Nos		Each	
2	Providing & fixing angle iron frame to hold 2 Nos flood lights on existing electric pole duly painted with anit corrosive paint & two coat enameled paint inlcuding nut, bolts complete as required and approved by the Engineer incharge	2 Jobs		P.Job	
3	Providing & Fixing 200 watt LED Flood light 50000 hrs running life imported make aluminum alloy die casted housing IP 66 housing ,tempered front glass universal u bracket steel make ,anticorrosive painted complete as required as approved by the Engineer Incharge. (Osaka, SE or equivalent)	5 Nos		Each	
4	Providing & fixing wall mounted type LED 50 watts fitting enclosed in aluminum casted casing with front glass complete as required as approved by the Engineer incharge (Osaka / Osaram/SE) with one year warranty	2 Nos		Each	
5	Providing & fixing flood light fitting complete with 1x250 watts metal halide Imp, ballast, ignitor & capacitor as per Philips Cat (M/SMF-383/250W HPIT lamp) (Tango)	700 Nos		Each	
6	Providing & erecting M.S Tabular pole 10 SWG with foundation plate 24"x24" square shape, pole height 40 feet long having size (20'.8"+10'.6"+5'.5"+5'.4") i/c folding hanger duly painted with anti corrosive paint & two coat enameled paint. The job include construction of concrete foundation 1:2:4 ratio upto 8 feet deep foundation, 2 feet height collar from the ground level duly plastered etc. as and approved by the Engineer incharge	73 Nos		Each	
					Total Rs _____
ITEM BASED ON S/R					
1	Wiring for sub-main with 4 core, 6mm2 stranded copper conductor PVC insulated & PVC sheathed circulr / flat cable in 30mm (1 1/4") dia PVC conduit fitted on surface as required (2.44.4)	500 P.Mtr		P.Sft	
2	Wiring for sub-main with 2 core, 2.5mm2 stranded copper conductor PVC insulated & PVC sheathed circular / flat cable in 1.5mm single core PVC insulated wire as ECC in 20mm (3/4") dia uPVC conduit fitted on surface as required (2.39.2)	2000 Rft		P.Rft	

- | | | | | |
|---|---|------|------|-------------------------|
| 3 | Wiring for sub-main with 2 core, 4mm ² (1/1.38mm) stranded copper conductor PVC insulated & PVC sheathed circular / flat cable i/c 1.5mm single core PVC insulated wire as ECC in 25mm (1") dia uPVC conduit fitted on surface as required (2.39.3) | 2000 | Rft | P.Rft |
| 4 | Providing & fixing 6 to 32 Amps DP MCCB fixed on metal board recessed in the wall duly covered with fiber sheet, i/c inter connection as required (2.72.1) | 100 | Nos | Each |
| 5 | Wiring for sub-main with 2 core, 4mm ² stranded copper conductor PVC insulated & PVC sheathed cable i/c 1.5mm single core PVC insulated as ECC in 25mm (1") dia high pressure 'D' class uPVC conduit buried in ordinary soil at the depth of 0.5 meter as per pak PWD specification as required (2.51.3) | 2000 | Rft | P.Rft |
| 6 | Providing and fixing Earthing set with 2"x2"x1/4" copper plate buried in the ground at a depth of 12 feet or less if water comes out from the ground level (with salt and charcoal, or Earthing chemical Powder) etc making the pit 12 feet deep by excavation of all type of soil (except soft or hard rock) i/c fixing of 8 SWG copper wire in 1/2 " G.I conduit complete in all respect as required. (3.8.2) | 73 | Jobs | P.Job
Total Rs _____ |


 Assistant Executive Engineer
 Karachi Central E/M Division No.1
 Pak PWD Karachi


 Executive Engineer
 Karachi Central E/M Division No.1
 Pak PWD Karachi

Schedule of Work

**NAME OF WORK:- PROVIDING & INSTALLATION OF STREET LIGHTS & HIGH MAST
POLES AT DIFFERENT UC'S OF DISTRICT EAST AT KARACHI**

S.#	Item of Work	Qty.	Rate	Unit	Amount
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ITEMS BASED ON M/R

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|---|---|--------|--|------|--|
| 1 | Providing & fixing road light fitting (metal casted SOGO or equivalent) complete with 1x250watts sodium lamp, 250 watts ballast, ignitor & capacitor (all Philips components) i/c ABC connection connector as required | 25 Nos | | Each | |
| 2 | Providing & installation of backolite make surface type switch 10/15 Amps bacolite & & porcelean make enclosed in wooden board as approved by the Engineer incharge complete as required | 25 Nos | | Each | |
| 3 | Providing & fixing 5 ft long 1 1/4" dia GI pipe with 45° or as required angle bracket with MS flat strip clamp fitted on wall with bolts i/c wiring with 2.5mm PVC insulated wire as required. | 40 Nos | | Each | |
| 4 | Providing & fixing 400 watts High beam LED flood light 50000 hrs running life imported make aluminum alloy diw casted housing IP 66 housing tempered front glass universal u bracket steel make anticorrosive painted complete as required as approved by the Engineer incharge (Osaka, SE or equivalent) | 40 Nos | | Each | |
| 5 | Providing & fixng wall mounted type LED 50W fitting enclosed in aluminum casted casting with front glass complete as required as approved by the Engineer incharge (Osaka / SE or equivalent) | 10 Nos | | Each | |
| 6 | Providing & erecting MS tabular pole 10 SWG with foundation plate 24"x24" square shape, pole height 40 ft long having size (20'-8" + 10'-6" + 5'-5" + 5'-4") i/c folding hanger duly painted with anti corrosive paint & two coat enameled paint. The job include construction of concrete foundation 1:2:4 ratio upto 8 feet deep foundation 2 feet height collar from the ground level duly plastered etc. as and approved by the Engineer incharge | 12 Nos | | Each | |

Total Rs _____

ITEMS BASED ON S/R

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|---|---|---------|--|-------|--|
| 1 | Providing & laying, 2 core, 1.5mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable i/c 1mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit / cable duct as required.(2-62-1) | 300 Mtr | | P.Mtr | |
| 2 | Providing & laying, 2 core, 2.5mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable i/c 1.5mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit / cable duct as required.(2-62-2) | 300 Mtr | | P.Mtr | |

- 3 Providing & laying, 2 core, 4mm², stranded copper conductor, PVC insulated & PVC sheathed cable i/c 1.5mm² single core PVC insulated wire as ECC in all kinds of existing or given conduit / cable duct as required.(2-62-3)

50 Mtr


P.Mtr

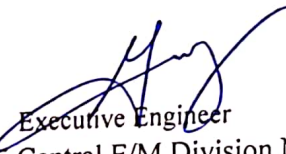
- 4 Providing and fixing Earthing set with 3'x8'x2" copper plate buried in the ground at a depth of 12 feet or less if water comes out from the ground level (with salt and charcoal, or Earthing chemical Powder) etc making the pit 12 feet deep by excavation of all type of soil (except soft or hard rock) i/c fixing of 8 SWG copper wire in 1/2 " G.I conduit complete in all respect as required. (3-9-3)

15 Jobs

P.Job

Total Rs


Assistant Executive Engineer
Karachi Central E/M Division No.I
Pak PWD Karachi


Executive Engineer
Karachi Central E/M Division No.I
Pak PWD Karachi

Schedule of Work

NAME OF WORK:- PROVIDING & INSTALLATION OF HIGH BEAM LIGHTS, STREET LIGHTS, FLOOD LIGHTS & HP DWT PUMPING SET AT ORANGI TOWN KARACHI.

S.#	Item of Work	Qty	Rate	Unit	Amount
<u>ITEM BASED ON M/R</u>					
1	Providing & installing testing & commissioning Deep well turbine pump type DWT 816D / 2 Stages motor 120 HP 4 Pole, 3 phase Siemens Motor, Star Delta motor control unit (MCU) i/c column pipes complete in all respect as required. (Flow 3000 UK GPM, Head 85 feet) KSB Make or equivalent.	1 No		Each	
2	Providing & fixing road light fitting (metal casted SOGO or equivalent) complete with 1x250watts sodium lamp, 250 watts ballast, ignitor & capacitor (all Philips components) i/c ABC connection connector as required	20 Nos		Each	
3	Providing & fixing 400 watts High beam LED flood light 50000 hrs running life imported make aluminum alloy die casted housing IP 66 housing tempered front glass universal u bracket steel make anticorrosive painted complete as required as approved by the Engineer incharge (Osaka, SE or equivalent)	10 Nos		Each	
4	Providing & fixing cast iron sluice valve with flange & two tail pieces to each wall complete with bolts & nuts i/c the cost of section rubber washer (valves to stand test pressure had of 400 ft (122m) 10 inches dia	1 No		Each	
5	Providing & fixing cast iron sluice valve with flange & two tail pieces to each wall complete with bolts & nuts i/c the cost of section rubber washer (valves to stand test pressure had of 400 ft (122m) 12 inches dia	1 No		Each	
6	Providing & fixing cost iron non return or reflex valve with gunmetal working part & hinged door flange & rubber washer & bolts & nuts 10 inches dia	1 No		Each	
7	Providing & fixing cost iron non return or reflex valve with gunmetal working part & hinged door flange & rubber washer & bolts & nuts 12 inches dia	1 No		Each	
8	Manufacturing supply & fixing black steel M.S pipe made of MS. Sheet, externally thick & internally C.C lining 8 MM thick including lying jointing with welding including cost of bends of any degree & testing with water specified pressure (for 18" dia 8.7 MM thick) Making connection delivery pipe line to mani fold & existing rising main i/c welding & fabrication as per requirement & instruction	40 Rft		P.Rft	
9	Providing & fixing MS steel garder Tee & plate including welding, fabricating for installation of overhead gantry crane, pump foundation as per site requirement & instruction of Engineer incharge				

Girder size 8"x4"
 Girder weight 1 Rft= 18 lbs
 40'x 4' =160'
 3'x20 = 60'
 1x20=20
 18'x10' =180'
 5'x20' =100'
 20x4' = 80'
 3x8=24
 1x8=8
 18x4 =72'
 5x8=40
 Misc1 = 30'
 Total = 774'
 774' x 18 x 0.4536= 5715 Kg's 5715

250 Kg's P.Kg

- 10 Manufacturing supply & fixing black steel M.S pipe made of MS. Sheet, externally thick & internally C.C lining 8 MM thick including lying jointing with welding including cost of bends of any degree & testing with water specified pressure (for 8" dia 8.7 MM thick)

50 Rft P.Rft

- 11 Manufacturing supply & fixing black steel M.S pipe made of MS. Sheet, externally thick & internally C.C lining 8 MM thick including lying jointing with welding including cost of bends of any degree & testing with water specified pressure (for 12" dia 8.7 MM thick)

60 Rft P.Rft

- 12 Providing & fixing M.S flange 8" dia (Imported make)

4 Nos. Each

- 13 Providing & fixing M.S flange 12" dia (Imported make)

4 Nos. Each

- 14 Providing & fixing water pressure gauge 0 to 15 kg/cm sq along with pressure cock and other material as required.

1 No Each
 Total Rs

ITEM BASED ON S/R

- 1 Providing & laying 3 ½ core, PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor, armoured underground, L.T cable buried in the ground dully covered with sand and warning cable tiles as per Pak. P.W.D specification as required. (3.1.1)

60 Mtr P.Mtr

e) 95mm²

- 2 Providing, installation, testing & commissioning of flood lights (IP66) including driver, having neutral white / cool white colour, 110-120 lm/watts efficiency, 0.9 or above power factor 20000-25000 hours life cycle, including connection, complete in all respect as approved by the Engineer incharge. (2.78.5)

10 Nos Each

e) 180.120 watts

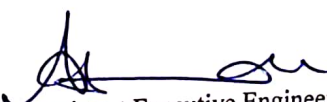
- 3 Supply & drawing of 50 mm², single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required. (2.26.23)

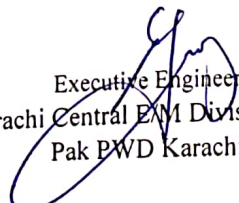
60 Mtr P.Mtr

- 4 Wiring for sub-main with 4x50 mm² PVC insulated wire 450/750 volts grade, single core, stranded copper conductor wire including 6mm² PVC insulated wire single core wire as ECC in (3") dia uPVC conduit fitted on surface as required. (2.24.9)

40 Mtr P.Mtr

- | | | | |
|----|---|----------|-------------------|
| 5 | Supply & drawing of 16 mm ² , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required. (2.26.6) | 40 Mtr | P.Mtr |
| 6 | Providing & fixing un platized polyvinyl chloride pipe (uPVC) "E" class with specials) and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc. complete in all respect. (SR. 2012-56/18) 4" dia. | 500 Mtr | P.Mtr |
| 7 | Providing and fixing Earthing set with 2'x2'x1/4" copper plate buried in the ground at a depth of 12 feet or less if water comes out from the ground level (with salt and charcoal, or Earthing chemical Powder) etc making the pit 12 feet deep by excavation of all type of soil (except soft or hard rock) i/c fixing of 8 SWG copper wire in 1/2 " G.I conduit complete in all respect as required. (8.3.2) | 7 Jobs | P.Job |
| 8 | Wiring for sub-main with 2x 2.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 16x16mm uPVCV duct fitted on surface including 1mm ² PVC insulated wire single core wire as ECC as reured. (2.30.1) | 150 Mtr | P.Mtr |
| 9 | Wiring for sub-main with 2x 4 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 16x16mm uPVC duct fitted on surface including 1.5mm ² PVC insulated wire single core wire as ECC as required.(2.30.3) | 100 Mtr | P.Mtr |
| 10 | Providing & installing 140 Cm (56") sweep ceiling fan with blades, canopy, stranded length of down rod including connection with 14.0076" flexible wire complete as required. (without regulator) Millat/Pak/Younas/ Royal. (2.80.3) | 5 Nos | Each |
| 11 | Providing & installing 30 Cm (12") sweep, Plastic body Exhaust fan complete with blades, motor, etc fixed in existing hole including connection with 14.0076" flexible wire complete as required Millat/Pak/ Younas/ Royal/GFC. (2.84.3) | 2 No | Each |
| 12 | Providing, Installation, testing & Commissioning of Flood lights (IP66) including dirver, having neutral white / cool white colour, 90-110 lm/watts efficiency, 0.9 or above power factor 20000-25000 hours life cycle including connection complete in all respect as approved by the Engineer incharge. (2.77.5) | 5 Nos | Each |
| g) | 180-200 watts | | |
| 13 | Wiring for light, fan or call bell point with (3/.029") PVC insulated wire in 20 mm (3/4")dia uPVC conduit fitted on surface inclfuding 1mm ² single core PVC insulated wire as ECC as required. (2.1.1) | 10 Point | Point
Total Rs |


 Assistant Executive Engineer
 Karachi Central E/M Division No.I
 Pak PWD Karachi


 Executive Engineer
 Karachi Central E/M Division No.I
 Pak PWD Karachi

Schedule of Work

**NAME OF WORK:- PROVIDING & INSTALLATION OF HORIZONTAL WATER BOOSTING PUMP
AT ASMA GARDEN UC-28 SECTOR 14-A METRO WILL -3 AT KARACHI**

S.#	Item of Work	Qty	Rate	Unit	Amount
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ITEM BASED ON M/R

- | | | | | | |
|---|--|---|------|-------|--|
| 1 | Providing, & installing testing & commissioning in line horizontal pump ETA Line 080-080-200+ 30 HP / 4 pole standard motor, 1450 RPM 3 phase motor control unit (MCU) with flow 1200 GPM Head 110 feet complete in all respect as required (European make, KSB, or equivalent) | 2 | Jobs | P.Job | |
| 2 | Preperation of concrete situ foundation for above pumping set along with foundation bolts. The Job includes plaster work as required | 2 | Jobs | P.Job | |
| 3 | Providing & fixing flush/surface type Electric Distribution board, fabricated with heavy guage sheet steel (not less than 16 SWG) suitable for operation on 440 volts, three phase, 4 wire, 50 cycle AC supply, duly painted with superior quality of enamelled paint after de-greasing and phyosphating process with equipped with following accessories (DB water pump). | | | | |

Incoming

- 1 No of 250-400 Amps TP MCCB (Terasaki)
- 1 Set. of Indication light
- 1 No. of Volt meter
- 1 No. of Ammeter
- Neutrtal connecting terminals
- Earth connection terminal

Out Going

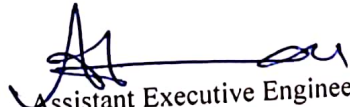
- | | | | |
|---|--------|------|-------|
| 2 Nos of 75/100 Amps TP MCCB (Terasaki) | 1 | Jobs | P.Job |
| 1 No Bus bar 300 Amps | | | |
| 4 Providing & fixing cast iron sluice valve with flange & two tail pieces to each wall complete with bolts & nuts i/c the cost of section rubber washer (valves to stand test pressure had of 400 ft (122m) 8/10 inches dia | 2 | Nos | Each |
| 5 Providing & fixing cast iron sluice valve with flange & two tail pieces to each wall complete with bolts & nuts i/c the cost of section rubber washer (valves to stand test pressure had of 400 ft (122m) 12 inches dia | 1 | No | Each |
| 6 Providing & fixing cost iron non return or reflex valve with gunmetal working part & hinged door flange & rubber washer & bolts & nuts 10 inches dia | 1 | No | Each |
| 7 Providing & fixing P.E pipe (8") dia (PN-10) for cold water supply with special i/c cutting fitting i/c cleaning the pipe and laying in proper line & level alignment as per direction of Engineer incharge. | 50 Rft | | P.Rft |
| 8 Manufacturing supply & fixing black steel M.S pipe made of MS. Sheet, externally thick & internally C.C lining 8 MM thick including fying jointing with welding including cost of bends of any degree & testing with water specified pressure (for 8" dia) | 50 Rft | | P.Rft |

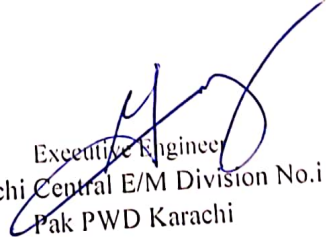
9	Manufacturing supply & fixing black steel M.S pipe made of MS. Sheet, externally thick & internally C.C lining 8 MM thick including lying jointing with welding including cost of bends of any degree & testing with water specified pressure (for 12" dia 8.7 MM thick)	10 Rft	P.Rft
10	Providing & fixing cast iron make gate valve 8" dia spiadle type as required.	4 Nos.	Each
11	Providing & fixing M.S flange 8" dia (Imported make)	10 Nos.	Each
12	Providing & fixing M.S flange 10" dia (Imported make)	3 Nos.	Each
13	Providing & fixing cost iron non return or reflex valve with gunmetal working part & hinged door flange & rubber washer & bolts & nuts 6 inches dia	2 Nos	Each
14	Providing & fixing water pressure gauge 0 to 15 kg/cm sq along with pressure cock and other material as required.	1 No.	Each
			Total Rs

ITEM BASED ON S/R

1	Wiring for sub-main with 4x50 mm ² PVC insulated wire 450/750 volts grade, single core, stranded copper conductor wire including 6mm ² PVC insulated wire single core wire as ECC in (3") dia uPVC conduit fitted on surface as required. (2.24.9)	40 Mtr	P.Mtr
2	Supply & drawing of 16 mm ² , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required. (2.26.6)	40 Mtr	P.Mtr
3	Providing & fixing unplasticized polyvinyl chloride pipe (uPVC) "E" class with specials) and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc. complete in all respect. (SR. 2012-56/18) 4" dia.	100 Rft	P.Rft
4	Providing and fixing Earthing set with 2'x2'x1/4" copper plate buried in the ground at a depth of 12 feet or less if water comes out from the ground level (with salt and charcoal, or Earthing chemical Powder) etc making the pit 12 feet deep by excavation of all type of soil (except soft or hard rock) i/c fixing of 8 SWG copper wire in 1/2 " G.I conduit complete in all respect as required. (3.8.2)	2 Jobs	P.Job
5	Wiring for sub-main with 2x 2.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 16x16mm uPVC duct fitted on surface including 1mm ² PVC insulated wire single core wire as ECC as required. (2.30.1)	50 Mtr	P.Mtr
6	Wiring for sub-main with 2x 4 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 16x16mm uPVC duct fitted on surface including 1.5mm ² PVC insulated wire single core wire as ECC as required. (2.30.3)	50 Mtr	P.Mtr

- | | | | | |
|----|--|----|-------|-------------------------|
| 7 | Providing & installing 140 Cm (56") sweep ceiling fan with blades, canopy, stranded length of down rod including connection with 14.0076" flexible wire complete as required. (without regulator) Millat/Pak/Younas/ Royal. (2.80.3) | 1 | No | Each |
| 8 | Providing & installing 30 Cm (12") sweep, Plastic body Exhaust fan complete with blades, motor, etc fixed in existing hole including connection with 14/.0076" flexible wire complete as required Millat/Pak/ Younas/ Royal/GFC. (2.84.3) | 1 | No | Each |
| 9 | Providing, Installation, testing & Commissioning of Flood lights (IP66) including dirver, having neutral white / cool white colour, 90-110 lm/watts efficiency, 0.9 or above power factor 20000-25000 hours life cycle including connection complete in all respect as approved by the Engineer incharge. (2.77.5) | 5 | Nos | Each |
| g) | 180-200 watts | | | |
| 10 | Wiring for light, fan or call bell point with (3/.029") PVC insulated wire in 20 mm (3/4")dia uPVC conduit fitted on surface inclfuding 1mm ² single core PVC insulated wire as ECC as required. (2.1.1) | 30 | Point | Point
Total Rs _____ |


 Assistant Executive Engineer
 Karachi Central E/M Division No.1
 Pak PWD Karachi


 Executive Engineer
 Karachi Central E/M Division No.1
 Pak PWD Karachi

Schedule of Work

NAME OF WORK:- PROVIDING & FIXING OF HPIT LIGHTS AND POLES AT FATIMA JINNAH FAMILY PARK AT LINES AREA AT KARACHI.

S.#	Item of Work	Qty	Rate	Unit	Amount
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ITEM BASED ON M/R

- | | | | |
|---|---|-------|------|
| 1 | Providing & erecting M.S Tabular pole 16 SWG with foundation plate 18"x18" square shape, pole height 30 feet long having size (20'-6"+5'-5"+5'-4") duly painted with anti corrosive paint & two coat enameled paint. The job include construction of concrete foundation 1:2:4 ratio upto 5 feet deep foundation, 2 feet height collar from the ground level duly plastered etc. as and approved by the Engineer incharge | 5 Nos | Each |
| 2 | Providing & erecting MS tabular pole 16 SWG with foundation plate 12"x12" square shape, pole height 40 ft long having size (20'-8" + 10'-6" + 5'-5" + 5'-4") i/c folding hanger duly painted with anti corrosive paint & two coat enameled paint. The job include construction of concrete foundation 1:2:4 ratio upto 8 feet deep foundation 2 feet height collar from the ground level duly plastered etc. as and approved by the Engineer incharge | 4 Nos | Each |
| 3 | Providing & fixing PVC board size 4"x4" suitable for inter connection pole foundation complete with connector, cover complete as required as approved by the Engineer incharge | 3 Nos | Each |

Total Rs. _____

ITEM BASED ON S/R

- | | | | |
|---|---|---------|-------|
| 1 | Wiring for sub-main with 2 core 1.5mm ² stranded copper condutor, PVC insulated & PVC sheathed cable in 16x16mm PVC cable fitted on surface as required (2.46.1) | 500 Mtr | P.Mtr |
| 2 | Wiring for sub-main with 2 core 2.5mm ² stranded copper condutor, PVC insulated & PVC sheathed cable in 16x16mm uPVC cable duct fitted on surface as required (2.46.2) | 450 Mtr | P.Mtr |
| 3 | Wiring for sub-main with 2 core 4mm ² stranded copper condutor, PVC insulated & PVC sheathed cable in 16x25mm uPVC cable duct fitted on surface as required (2.46.3) | 300 Mtr | P.Mtr |
| 4 | Wiring for sub-main with 2 core 6mm ² stranded copper condutor, PVC insulated & PVC sheathed cable in 16x25mm uPVC cable duct fitted on surface as required (2.46.4) | 250 Mtr | P.Mtr |
| 5 | Providing, installation, testing & commissioning of flood lights (IP66) including driver, having neutral white / cool white colour, 110-120 lm/Watts efficiency, 0.9 or above power factor 20000-25000 hours life cycle including connecion complete in all respect as approved by the Engineer incharge (2.78.5) | 5 Nos | Each |
| a | 20-30 Watts | 20 Nos | Each |
| b | 50-70 Watts | 5 Nos | Each |
| c | 80-110 Watts | | |

6 Providing & fixing 6 to 32 Amps DP MCCB fixed on metal board recessed in the wall duly covered with fiber sheet i/c inter connection as required (2.72.1)

7 Nos Each

7 Providing & fixing reciprocating pump (Donkey pump) 2 HP having suction & discharge 1"x1" double belt complete with AC 220V single phase motor mounted on a frame fixed as approved (Meco, Aabshar, Golden, 3 Star) (5.10.3)

1 No Each

8 Providing & fixing mono block pumping set complete with 2 HP pumps 2850/2900 RPM complete with AC 220V single phase motor on a common base plate having suction & discharge 2"x1-1/2" as approved (Meco, Aabshar, Golden, 3 Star) (5.11.3)

1 No Each

9 Conversion of trial bore into successful bore in all type of soil except shingle gravel and rock i/c sinking and with drawing of casing pipe complete as required 6"-10" dia (5.17.7)

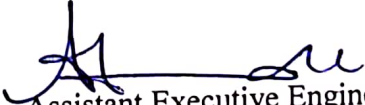
250 Rft P.Rft

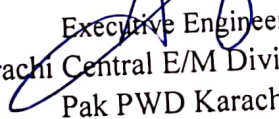
a) Exceeding 200 Rft

10 Providing and fixing Earthing set with 2'x2'x1/4" copper plate buried in the ground at a depth of 12 feet or less if water comes out from the ground level (with salt and charcoal, or Earthing chemical Powder) etc making the pit 12 feet deep by excavation of all type of soil (except soft or hard rock) i/c fixing of 8 SWG copper wire in 1/2" G.I conduit complete in all respect as required. (3-8-2)

9 Jobs

P.Job
Total Rs. _____


Assistant Executive Engineer
Karachi Central E/M Division No.I
Pak PWD Karachi


Executive Engineer
Karachi Central E/M Division No.i
Pak PWD Karachi

Schedule of Work

**NAME OF WORK:- PROVIDING & INSTALLATION OF STREET LIGHTS AT UCs 20 TO 25 AT
RANCHORLINE SADDAR TOWN KARACHI.**


S.#	Item of Work	Qty.	Rate	Unit	Amount
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ITEMS BASED ON M/R

- | | | | | | |
|---|---|--------|--|------|-----------------------|
| 1 | Providing & fixing road light fitting (metal casted SOGO or equivalent) complete with 1x250 watts sodium lamp, 250 watts ballast, ignitor & capacitor (all Philips components) as approved by the Engineer incharge as required | 85 Nos | | Each | |
| 2 | Providing & installation of backolite make surface type switch 10/15 Amps bacolite & & porcelean make enclosed in wooden board as approved by the Engineer incharge complete as required | 85 Nos | | Each | |
| 3 | Providing & fixing 5 ft long 1 1/4" dia GI pipe with 45° or as required angle bracket with MS flat strip clamp fitted on wall with bolts i/c wiring with 2.5mm PVC insulated wire as required. | 85 Nos | | Each | |
| | | | | | Total Rs _____ |

ITEMS BASED ON S/R

- | | | | | | |
|---|---|---------|--|-------|-----------------------|
| 1 | Providing & laying, 2 core, 1.5mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable i/c 1mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit / cable duct as required.(2-62-1) | 500 Mtr | | P.Mtr | |
| 2 | Providing & laying, 2 core, 2.5mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable i/c 1.5mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit / cable duct as required.(2-62-2) | 500 Mtr | | P.Mtr | |
| 3 | Providing & laying, 2 core, 4mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable i/c 1.5mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit / cable duct as required.(2-62-3) | 450 Mtr | | P.Mtr | |
| 4 | Providing and fixing Earthing set with 3'x8'x2" copper plate buried in the ground at a depth of 12 feet or less if water comes out from the ground level (with salt and charcoal, or Earthing chemical Powder) etc making the pit 12 feet deep by excavation of all type of soil (except soft or hard rock) i/c fixing of 8 SWG copper wire in 1/2 " G.I conduit complete in all respect as required. (3-9-3) | 1 Jobs | | P.Job | |
| | | | | | Total Rs _____ |


Assistant Executive Engineer
Karachi Central E/M Division No. I
PAK. P.W.D., KARACHI


Executive Engineer
Karachi Central E/M Divn. No. I
PAK. P.W.D., Karachi