

OFFICE OF CHIEF ENGINEER(HQ)
Even No. CE(NORTH)PLGB-TS/2020 Lahore
PUNJAB LOCAL GOVERNMENT BOARD LAHORE
Dated Lahore the 23rd September 2020

To

Municipal Officer(I&S),
Municipal Committee,
Kot Addu.

Subject:- **REVISED TECHNICAL SANCTION OF THE SCHEME NAMELY
REHABILITATION OF MUNICIPAL SERVICES INFRASTRUCTURE IN
KOT ADDU CITY GROUP-A AMOUNTING TO RS.38.705 MILLION.**

Reference your letter No.MC/KA/985 Dated 22.09.2020 on the subject noted
above.

2. The revised technical sanction is accorded subject to the fulfillment of
following requirement prior to award of contract:-

1. The Technical Sanction is subject to valid charge, provision of requisite funds, Administrative Approval as per scope and item work provided in the detailed estimate, mutation / transfer of requisite land in the name of department and no complaint / inquiry already being conducted by any Department regarding execution of the Project.
2. The competent authority of the executing agency and the engineer incharge shall ensure that the work is carried out after observation of all financial, codal formalities and strictly in accordance with the sanctioned estimate / specifications. The responsibility of the rate shall rest on the authority approving the rates, as the rates provided in the estimate are for estimation purpose only. The tender accepting authority shall also check and satisfy himself regarding quality, durability, economy and lowest market rate in the actual before accepting the rates of supply item. The payment shall be made as per quantity of each item of works/actual work executed at site after record entries with specification and nomenclature as the quantity of each items of works in the estimate is for estimation purpose only and shall not confer any authority for its payment.
3. The quantity of each item of work taken in the estimate is for estimation purpose only. The exact quantity of earth work will be worked out after conducting leveling before executing of earth work. X-section and longitudinal sections of the earth work be provided in order to avoid

possibility of any wrong payment besides preparation of lead chart of E/W showing borrowing areas specifying exact Khasra and Khatoni numbers.

4. The non-schedule rates as contained in the estimate are for estimating purpose only and should not be taken as authority for payment. The payment of such item will also be made according to the lowest rate quoted by the contractor after observation of all financial and codal formalities and cannot be made more than the approved rates.
5. The credit for existing or old dismantled materials should be afforded to the project in accordance with the codal rules and financial procedure properly.
6. The Engineering incharge will certify before making payment be there is no over lapping of the work / item of work to avoid any wrong payment. He shall also check and satisfy regarding quality and durability of all items of works before making the payment.
7. Picture of existing condition of works during execution and after execution be made part of record of the work being technically sanctioned.
8. **Municipal Committee Will be fully responsible to adhere to the technical specification of lights as provided in PEECA standards and will ensure that PCSIR / CERAD certifies that the light conforms to PEECA standards**



(BASHARAT JAVAID)
CHIEF ENGINEER(NORTH)
PUNJAB LOCAL GOVT. BOARD
LAHORE

OFFICE OF THE
MUNICIPAL COMMITTEE
KotAddu

No. MC/KA/925 Date 22/09/2020

To,

The Chief Engineer(HQ),
Punjab Local Government Board,
Lahore.

Subject:- **Request For Accord of Technical Sanction**

The Revised Estimate of following project is submitted for accord of
Technical Sanction.

S.No	Name of Scheme	Estimated cost
1.	Rehabilitation of Municipal Services Infrastructure in Kot Addu City Group-A	38,705,824

It is therefore requested to check the Estimate and TS of the Scheme may be issued at the earliest.

MUNICIPAL OFFICER(I&S)
MUNICIPAL COMMITTEE
KotAddu

Punjab Cities Program
Rehabilitation of Municipal Services
Infrastructure in Kot Addu City

Group-A
Rehabilitation Works

Municipal Committee Kot Addu

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation Works Group-A

Abstract of Cost

Sr. No.	Subhead	BOQ Amount (Rs)	Revised BOQ Amount (Rs.)	Remarks
1	Solid Waste Management			
2	Sewerage System <i>detail attached</i>	14,871,219 ✓	19,383,170 ✓	
3	Street Lights <i>-do-</i>	10,435,000 ✓	10,435,000 ✓	
4	Office Building Equipment <i>-do-</i>	80,000 ✓	80,000 ✓	
5	Water Supply System <i>-do-</i>	572,000 ✓	572,000 ✓	
6	Parks	9,799,495 ✓	5,282,293 ✓	
	Total	35,757,714 ✓	35,752,463 ✓	
	Contingencies @ 2%	715,154 ✓	715,049 ✓	
	Punjab Sales Tax @ 5%	1,785,985 ✓	1,787,623 ✓	
	Horticulture @ 1%	357,577 ✓	357,525 ✓	
	Public Awareness @ 0.25%	89,394 ✓	89,381 ✓	
	Grand Total	38,705,824	38,705,042	

Signature
Sub Engineer,
Municipal Committee,
Kot Addu.

Signature
Municipal Officer (Infrastructure),
Municipal Committee,
Kot Addu.

= 3,87,05,000/-

- (i) Revised Estimate Technically sanctioned for Rs. 3,87,05,000/- i.e. Rupees Three crore Eighty Seven lac and Five thousand only.
- (ii) All code formalities should be completed before making payment on competition basis/lowest market rates.
- (iii) The credit of existing old material should be afforded to the Project in accordance with the code rules and financial procedure properly.
- (iv) Pictures of existing conditions of civil works before execution.
- (v) Notice of training rate analysis and specifications should strictly be observed before making payment.
- (vi) The work should be made as per estimate and as per specifications.

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation Works Group-A

2 - Sewerage system

Sr. No.	Subhead	BOQ		Revised BOQ		Remarks
		Quantity	Cost (Rs.)	Quantity	Cost (Rs.)	
1	Replacement of centrifugal pump with suction pipe, delivery pipe with all accessories and MCU	02 Nos	2,155,000	02 Nos	2,655,000	
2	Replacement of MCU (Motor Control Unit) and electric components	15 Nos	2,284,200	15 Nos	2,284,200	
3	Provision & installation of power factor improvement	01 No	100,000	01 No	100,000	
4	Rehabilitation of Civil works including pump houses, screening chamber, collecting tanks, boundary walls, etc for each disposal station.	05 Nos	4,273,364	05 Nos	6,057,334	
5	Supply and fixing of Manhole covers with CI base frame	200 Nos	1,489,838	200 Nos	1,489,838	
6	Raising of manhole i/c CI base frames and manhole covers	250 Nos	695,281	128 Nos	357,450	
7	Rehabilitation of Sullage Carrier	6000 Rft	3,873,536	6000 Rft	6,101,518	
	Total		14,871,219		19,045,339	

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Replacement of horizontal non-clogging sewage pump and MCU (Group-A)

Item No.	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
1	Providing, installing, testing, commissioning non clogging horizontal sullage pumping unit suitable for dry pit installation (make KSB or approved equivalent) provided with cleaning port on suction piece directly coupled with induction motor of 15 BHP (IP 55 Class) protection, Insulation Class F, 380-440 volts three phase, 960 RPM and fitted on common base plate. The rate includes motor control unit suitable for 15 BHP of motor comprising of main circuit breaker, contactors, overload relay, over/under voltage protection relay, phase failure and phase reversal protection, 3 Nos volt meters, 3Nos ampere meter, 3 Nos indication lights, current transformer as approved by site engineer. Discharge 2 cusecs against 40 feet head with 15 BHP motor	1	1,165,000 ✓	Nos	1,165,000 ✓	1	1,465,000 ✓	Nos	1,465,000 ✓	<div style="border: 1px solid black; padding: 5px; transform: rotate(-15deg); display: inline-block;"> Quotation attached dully verified by Engineer Incharge </div>
					1,165,000 ✓				1,465,000 ✓	

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Replacement of horizontal non-clogging sewage pump and MCU (Group-A)

Item No.	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate						Revised Estimate				
1	Providing, installing, testing, commissioning non clogging horizontal sullage pumping unit suitable for dry pit installation (make <u>KSB</u> or approved equivalent) provided with cleaning port on suction piece directly coupled with induction motor of <u>10 BHP</u> (IP 55 Class) protection, Insulation Class F, 380-440 volts three phase, <u>960 RPM</u> and fitted on common base plate. The rate includes motor control unit suitable for <u>10 BHP</u> of motor comprising of main circuit breaker, contactors, overload relay, over/under voltage protection relay, phase failure and phase reversal protection, <u>3 Nos</u> volt meters, <u>3Nos</u> ampere meter, <u>3 Nos</u> indication lights, current transformer as approved by site engineer. Discharge cusecs against 40 feet head with <u>10 BHP</u> motor	1	990,000 ✓	Nos	990,000 ✓	1	1,190,000 ✓	Nos	1,190,000 ✓	<div style="border: 1px solid black; padding: 5px; transform: rotate(-15deg); display: inline-block;"> Quotation attached dully verified by Engineer Incharge </div>
					990,000 ✓				1,190,000 ✓	



OFFICE OF THE MUNICIPAL COMMITTEE KOT ADDU

To

Choudhary Muhammad Ashiq Sb,
Senior Program Officer,
Infrastructure Development,
PMDFC, Lahore.

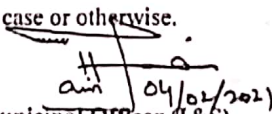
No. MC/KA/58

Dated. 04.02.2021

Subject: **PROVISION OF INDUCTION MOTOR OF 15 BHP & 10 BHP, 960 RPM
INSTEAD OF 1460 RPM (ITEM NO.2-4, GROUP-A, REHABILITATION
WORK, PUNJAB CITIES PROGRAM)**

In compliance of your telephonic directions on the subject matter, the contractor of relevant scheme was required by this office letter No.MC/KA/39 dated 28.01.2021 for providing, installing, testing, commissioning non clogging horizontal sullage pumping unit suitable for dry pit installation (make KSB or approved equivalent) provided with cleaning port on suction piece directly coupled with induction motor of 15 BHP & 10 BHP (IP 55 Class) protection, insulation Class F, 380-440 volts three phase, 960 RPM and fitted on common base plate instead of 1460 RPM on account of a bit change in the design of scheme. In response to our above said letter dated 28.01.2021 the contractor M/S Abdul Majeed Khan replied vide his communication No.MC/PMD/105 dated 03.02.2021 (Copy of letter along-with annexures are attached for ready reference) whereby he demanded an extra amount of Rs.1195000/- for making above said changes in the supply and fixing in the requisite items.

You are, therefore, requested to kindly examine the matter at length and equip this office with your pertinent technical advice in order to enhance the above said cost of said items. Please also opine in this regard that as to whether the already technically sanctioned estimate and administrative approval thereof is required to be revised in this case or otherwise.


Deputy Municipal Officer (I&S),
Municipal Committee, Kot Addu

Cc. to:-

1. The Administrator, Municipal Committee, Kot Addu.
2. The Chief Officer, Municipal Committee, Kot Addu.
3. The Chief Resident Engineer, Euro Consult, Lahore.
4. The Assistant Resident Engineer, Euro Consult, Lahore.
5. M/S Abdul Majeed Khan, Govt. Contractor, MC Kot Addu.

Scanned with CamScanner

Scanned with CamScanner

OFFICE OF THE MUNICIPAL COMMITTEE KOT ADDU

To

M/S Abdul Majeed Khan Sithari,
Govt. Contractor,
Municipal Committee Kot Addu.

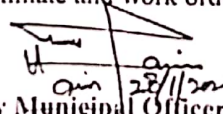
No. MC/KA/964-

Dated. 28-1-2021

Subject: PROVISION OF INDUCTION MOTOR OF 15 BHP & 10 BHP, 960 RPM INSTEAD OF 1460 RPM (ITEM NO.2.4, GROUP-A, REHABILITATION WORK, PUNJAB CITIES PROGRAM)

The work cited in the subject was allotted to you vide work order No.MC/KA/964 dated 09.09.2020 wherein you were required for providing, installing, testing, commissioning non clogging horizontal sullage pumping unit suitable for dry pit installation (make KSB or approved equivalent) provided with cleaning port on suction piece directly coupled with induction motor of 15 BHP & 10 BHP (IP 55 Class) protection, insulation Class F, 380-440 volts three phase, 1460 RPM and fitted on common base plate. But on account of a bit change in the design in order to make the scheme more effective and more efficient the motors of same BHP but of 960 RPM instead of 1460 RPM are required alongwith all allied accessories duly compatible with newly proposed induction motors.

You are, therefore, required to please provide the above said newly proposed items instead of previously given in the estimate and work order.


Deputy Municipal Officer (I&S),
Municipal Committee, Kot Addu

Cc. to:-

1. The Administrator, Municipal Committee, Kot Addu.
2. The Chief Officer, Municipal Committee, Kot Addu.
3. Choudhary Muhammad Ashiq, Senior Program Officer, Infrastructure Development, PMDFC, Lahore.
4. The Chief Resident Engineer, Euro Consult, Lahore.
5. The Assistant Resident Engineer, Euro Consult, Lahore.

Scanned with CamScanner

Scanned with CamScanner

To

Deputy Municipal Officer (I&S)
Municipal Committee Kot Addu

No. MC/PMO/105

Dated: 03-02-2021

Subject: PROVISION OF INDUCTION MOTOR OF 15 BHP & 10 BHP, 960 RPM INSTEAD OF 1460 RPM (ITEM NO.2.4, GROUP-A, REHABILITATION WORK, PUNJAB CITIES PROGRAM)

Dear Sir

With reference your letter MC/KA 39 on dated 28/01/2021 that you are required for providing , installing, testing, commissioning non clogging horizontal sullage pumping unit having discharge capacity of 2 cusec and 1 cusec suitable for dry pit installation (make KSB or equivalent) provided with cleaning port on suction piece directly coupled with induction motor of 15 BHP and 10 BHP (IP 55 Class) protection, installation class F, 380-440 volts three phase 1460 RPM and fitted on common base plate.

Now due to design change in order to make the scheme more effective and more efficient the motors of the same BHP but of 960 RPM instead of 1460 RPM are required along with all allied accessories duly compatible with newly proposed induction pumps.

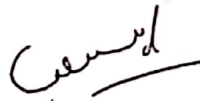
Cost comparison is as below from the quotation of manufacturer.

Brand	Discharge	Head	BHP	RMP	Cost. Rs.	Remarks
KSB	1cusec	40	10	1460	990000	Original
KSB	1cusec	40	10	960	1450000	Revised
KSB	2cusec	40	15	1460	1165000	Original
KSB	2cusec	40	15	960	1900000	Revised

In this regard an early action is required for the timely completion of the project.

For your further necessary approval please.

Quotation is also attached from KSB for both non clogging pumps.


Regards.

Project Manager

M/S Abdul Majeed Khan

cc. to:-

1. The Administrator, Municipal Committee, Kot Addu.
2. The Chief Officer, Municipal Committee, Kot Addu.
3. Choudhary Muhammad Ashiq, Senior Program Officer, Infrastructure Development, PMDFC, Lahore.
4. The Chief Resident Engineer, Euro Consult, Lahore.
5. The Assistant Resident Engineer, Euro Consult, Lahore.

Scanned with CamScanner

Scanned with CamScanner

Project Name: **Rehabilitation of Municipal Services Infrastructure in Kot Addu City**
 Repair/Replacement for MCU (Motor Control unit) and electric Component (Group-A)

Bill No 2.6

Quotation attached dully
verified by Engineer Incharge

Item No.	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
2.6	Replacement of motor control units, & pump house wiring etc.) Star Delta Startar 200/400 AMP (Seimins) for three Phase Electric Motor with all assesries etc complete in all respect	1	152280 ✓	No	152280 ✓	1	152280 ✓	No	152280 ✓	
					152280 ✓				152280 ✓	

$15 \times 152280 = 2284200$

$15 \times 152280 = 2284200$

Project Name:

Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 3 Power factor improvement equipment

Item No.	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
	Providing, installation, testing and commissioning of <u>Power Factor Improvement Equipment</u> for the motors of below given horse powers to be installed with the existing motor control units in a separate steel cabinet made of <u>16 SWG steel sheet</u> along with stiffener frame (<u>dust & vermin proof module</u>), wall mounted. The job will include all cabling wiring and other materials required to complete the job. The plant will comprise of but not limited to the provision and fixing of the under mentioned equipment in the steel cabinet									
2.4.1	1- Incomer <u>MCCB</u> of required rating for connection to the mains.	1	100,000 ✓	No	100,000 ✓	1	100,000 ✓	No	100,000 ✓	
	2- <u>Advanced microprocessor based</u> relay to ensure real time power factor correction.									
	3- <u>Current limiting contactors</u> if required for <u>capacitor switch</u> .									
	4- <u>HRC fuses</u> for rack protection									
	5- <u>Phase indication lights</u> 3 Nos									
	6- <u>Voltmeter 0-500 volts</u> = 3 Nos									

Quotation attached dully verified by Engineer Incharge

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City
Sub Head No. 3 Power factor improvement equipment

Item No.	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
	7- Amper meters = 3 Nos									
	8- Cooling fan if required.									
	9- Power factor meter									
	10- Capacitors of the required									
	11- All required relays as per standards									
	12 Cabling and wiring as per requirement									
	i- For 40 BHP motor 20 KVAR									
	Total	1		No	100,000	1		No	100,000	



Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 4 Rehabilitations of disposal works (5 Nos)

2.4.1-Rehabilitation of disposal works Railway road (Mohalla Churkal)

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
Original Estimate						Revised Estimate					
1	Ch-07 , Item -4	Pacca brick work F & P(1:5)etc	45 ✓	182.88 ✓ MRS	P-Cft	8,229 ✓	45 ✓	182.88 ✓	P-Cft	8,229 ✓	
2	Ch-07 ,Item -05	Pacca brick work in ground floor:- i) The composite rate is to be reduced by 7% and 14%,cement, sand mortar:-	215 ✓	199.25 ✓ MRS	P-Cft	42,840 ✓	215 ✓	199.25 ✓	P-Cft	42,840 ✓	
3	Ch-11 Item -5	Cement plaster 1:5 upto 20' (6.00 mm) height:- (1:4)	684 ✓	17.74 ✓ MRS	P-Sft	12,132 ✓	684 ✓	17.74 ✓	P-Sft	12,132 ✓	
4	ch-06, item 5 f	Cement concrete plain including compacting, finishing and curing complete (including screening and washing of stone aggregate)(1:2:4)	16 ✓	230.17 ✓ MRS	P-Cft	3,683 ✓	16 ✓	230.17 ✓	P-Cft	3,683 ✓	
5	Ch No.6 P.No 43 Item No 9	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (b) deformed bars (40 Grade)					107 ✓	14,903 ✓ MRS	%Kgs	15,946.69 ✓	
6	Ch No.6 P.No 42 Item No 6	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast 3) in situ, complete in all respects 1:2:4				-	16 ✓	370 ✓ MRS	P-Cft	5,920.80 ✓	

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 4 Rehabilitations of disposal works (5 Nos)

7	Ch-25, Item -30 (f)	Making and fixing steel grated door with 1/16" thick (1.5mm) sheeting, including angle iron fram(50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) centre to centre, with locking arrangement.	60 ✓	1029.80 ✓ MRS	P-Sft	61,788 ✓	60 ✓	1029.80 ✓	P-Sft	61,788 ✓
8	Ch-9, Item 5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.mbitumen coating sand blinded.	42 ✓	68.99 ✓ MRS	Sft	2,898 ✓	42 ✓	68.99 ✓	Sft	2,898 ✓

Project Name:

Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 4 Rehabilitations of disposal works (5 Nos)

9	Ch-9, Item 2	Second class tile roofing consisting of 4" (100 mm) earth and 1" (25 mm) mud plaster with Gobri leaping over ½" (13mm) thick cement plaster provided over one layer of 12"x6"x2" (300x150x50 mm) tiles laid in 1:6 cement mortar, including 1:2 cement pointing underneath of tiles complete including curing, etc.	42 ✓	94.01 MRS ✓	P-Sft	3,949 ✓	42 ✓	94.01 ✓	P-Sft	3,949 ✓	
10	Ch-9, P-61 Item -14	Khassiparnalas in cement, sand mortar 1:2, 12" (300)	1	100.95 MRS ✓	No	101 ✓	1	100.95 ✓	No	101 ✓	
11	Ch-9, Item -16	Bottom Khuras of brick masonry in cement mortar 1:6, over 3" (75 mm) cement concrete 1:4:8.	1	838.85 MRS ✓	No	839 ✓	1	838.85 ✓	No	839 ✓	
12	(N.S)	P/Fitting Electric D-set three Phase	1	10000.00 ✓	No	10,000 ✓	1	10000.00 ✓	No	10,000 ✓	
13	(N.S)	P/Fixing 1 ¼" G.I Pipe ralling three rows as per Standard drawing	89 ✓	900.00 ✓	Rft	80,100 ✓				-	
14	Ch-11, Item -25	White washing two coats old surface	1650 ✓	2.14 MRS ✓	P-Sft	3,598 ✓	1650 ✓	2.14 ✓	P-Sft	3,598 ✓	
15	Ch-18, Item.19	Providing and laying dry brick pavement/soiling in streets or thickness of bricks roads, etc. sand grounded, laid in proper camber, in preparation, watering, compaction of bed to proper camber, for the purpose of measurement and sand cushion.	218 ✓	152.00 MRS ✓	P-cft	33,136 ✓	218 ✓	152.00 ✓	P-cft	33,136 ✓	
Total											205,060
						263,293					

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 4 Rehabilitations of disposal works (5 Nos)

2.4.2- Rehabilitation of disposal works Mandi Mawashian

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
			Original Estimate				Revised Estimate				
1	Ch-21, P-124 Item - 18	Desilting of disposal work collecting tank, including removal of sludge within 3 chains (90 meter).	13000 ✓	9.25 ✓ MRS	P-Cft	120,218 ✓	13000 ✓	9.25 ✓	P-Cft	120,218 ✓	
2	Ch-03, P-29 Item - 13(b)	Rehandling of slush Upto a lead of 50 ft. (15 m).					13000 ✓	2132.60 ✓ MRS	%0Cft	27,724 ✓	
2	Ch-03, P-27 Item - 1(a)	Earth filling o/Soil Levelling dressing ,compacting ,ramming ,watering <u>lead upto 3 miles</u>	3800 ✓	8.12 ✓ A.o-r attached	P-Cft	30,842 ✓	19514.7 ✓	8.12 ✓ A.o-r attached	P-Cft	158,389 ✓	
3	Ch-07, P-52 Item - 07	Pacca brick work other than <u>building upto 10ft. (3 m) (1:5) i</u> cement, sand mortar:-	2424 ✓	188.83 ✓ MRS	P-Cft	457,730 ✓	2424 ✓	188.83 ✓	P-Cft	457,730 ✓	
4	Ch-01, P-72 Item -	Cement plaster 1:5 upto 20' (6.00 m) height:- (1:5)	3456 ✓	17.74 ✓ MRS	P-Sft	61,297 ✓	3456 ✓	17.74 ✓	P-Sft	61,297 ✓	
5	Ch-11, P-73 Item - 18	Cement pointing struck joints, on walls, up to 20' (6.00 m) height(1:2)	2706 ✓	19.97 ✓ MRS	P-Sft	54,046 ✓	2706 ✓	19.97 ✓	P-Sft	54,046 ✓	
6		P.C.C(1:2:4)	59 ✓	230.17 ✓ MRS	P-Cft	13,580 ✓	59 ✓	230.17 ✓	P-Cft	13,580 ✓	
7	Ch-25,P-156 Item - 30 (f)	making steel <u>grated door etc</u>	108 ✓	940.00 ✓	P-Sft	101,520 ✓	108 ✓	940.00 ✓	P-Sft	101,520 ✓	
8	(N.S)	P/Fitting Electric <u>D-set three Phase</u>	1 ✓	10000.00 ✓	P-set	10,000 ✓	1 ✓	10000.00 ✓	P-set	10,000 ✓	

The payment will be made as per actual work done according to 'X' & 'L' Section & lead responsibility lies with Eng. InCh.

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 4 Rehabilitations of disposal works (5 Nos)

9	(N.S)	P/Fixing 1 1/4" G.I Pipe ralling three rows as per Standard drawing	135 ✓	900.00 ✓ A.S.B attached	Sft	121,500 ✓	135 ✓	900.00 ✓ A.S.B attached	Sft	121,500 ✓
10	Ch-11, P - 74 Item - 25	White washing two coats old surface	2706 ✓	2.14 ✓ MRS	Sft	5,802 ✓	2706 ✓	2.14 ✓ MRS	Sft	5,802 ✓
11	Ch-18 , P - 111 Item.19	Providing and laying dry brick pavement/soing in streets or thickness of bricks roads, etc. sand grouted, laid in proper camber, in preparation, watering, compaction of bed to proper camber, for the purpose of measurement and sand cushion.	728 ✓	151.99 ✓ MRS	Cft	110,655 ✓	728 ✓	151.99 ✓ MRS	Cft	110,655 ✓
12	Ch-6 , P - 41 Item.2	P/L dry rammed brick or stone ballast 1 1/2" to 2" guage	2250 ✓	3670.90 ✓ MRS	%Cft	82,595 ✓	4293.23 ✓	3000.00 ✓	%Cft	128,797 ✓
13	Ch-10 , P - 70 Item - 43	Providing and laying Tuffpavers, having 7000PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect 60 mm thick	4500 ✓	108.40 ✓ MRS	P-Sft	487,800 ✓	9000 ✓	108.40 ✓ MRS	P-Sft	975,600 ✓
<i>so/c.lov. 50/ jrey</i>			Total			1,657,585				2,346,858

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 4 Rehabilitations of disposal works (5 Nos)

2.4.3-Rehabilitation of mini disposal works Noor Shah Chowk

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
Original Estimate						Revised Estimate					
1	Ch-23 , P-133 Item - 19	Laying cutting, jointing, testing and disinfecting cast iron Pipes to be supplied by pipe line in trenches, with spigot and socket caulked lead Government. joints, including cost of materials, such as lead, yarn, etc.2) Providing and installing specials complete in all respects:-8" dia	5 ✓	128.15 MRS	P-Rft	641 ✓	5 ✓	128.15 MRS	P-Rft	641 ✓	
2	Ch-07 , P-51 Item - 4	Pacca brick work F & P(1:5)	433 ✓	182.88 MRS		79,185 ✓	433 ✓	182.88 MRS		79,185 ✓	
3	Ch-01 , P-72 Item -	Cement plaster 1:5 upto 20' (6.00 mm) height:- (1:5)	524 ✓	17.74 MRS	P-Cft	9,294 ✓	524 ✓	17.74 MRS	P-Cft	9,294 ✓	
4	(N.S)	P/Fitting Electric D-set three Phase	1 ✓	10000.00	P-Sft	10,000 ✓	1 ✓	10000.00	P-Sft	10,000 ✓	
5	Ch-11, P-74 Item - 25	White washing two coats old surface	1650 ✓	2.14 MRS	P-Cft	3,538 ✓	1650 ✓	2.14 MRS	P-Cft	3,538 ✓	
6	Ch-18 , P-111 Item - 19	Providing and laying dry brick pavement/soling in streets or thickness of bricks roads, etc. sand grouted, laid in proper camber, in preparation, watering, compaction of bed to proper camber, for the purpose of measurement and sand cushion.	218 ✓	152.00 MRS	P-Sft	13,136 ✓	218 ✓	152.00 MRS	P-Sft	13,136 ✓	
Total						115,794				115,794	

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 4 Rehabilitations of disposal works (5 Nos)

2.4.4-Rehabilitation of disposal works Patal road

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
Original Estimate						Revised Estimate					
1	Ch-21 , P-124 Item - 18	Desilting of disposal work collecting tank, including removal of sludge within 3 chains (90 meter).	8187 ✓	9.25 ✓ MRS	P-Cft	75,709 ✓	19301 ✓	9.25 ✓ MRS	P-Cft	178,486 ✓	The payment will be made as per actual work done according to 'x' & 'c' Section & lead responsibility lies with Engg. Inch.
2	Ch-03 , P-29 Item - 13(b)	Rehandling of slush Upto a lead of 50 ft. (15 m).					19301 ✓	2132.60 ✓ MRS	%0Cft	41,161 ✓	
3	Ch-07 , P-52 Item - 07	Earth filling o/Soil Levelling dressing ,compacting ,ramming ,watering lead upto 3 miles	2796 ✓	8.12 ✓	P-Cft	22,693 ✓	32933.25 ✓	8.12 ✓	P-Cft	267,299 ✓	
4	Ch-01 , P-72 Item - 11 (b)	Pacca brick work other than building upto 10ft. (3 m) (1:5) i cement, sand mortar:-	1715 ✓	188.83 ✓ MRS	P-Cft	323,848 ✓	1997.79 ✓	188.83 ✓ MRS	P-Cft	377,247 ✓	
5	Ch-11 , P-73 Item - 18	Cement plaster 1:5 upto 20' (6.00 mm) height:- (1:5)	2608 ✓	17.74 ✓ MRS	P-Sft	46,246 ✓	4205.15 ✓	17.74 ✓ MRS	P-Sft	46,246 ✓	
6	Ch-25,P-156 Item - 30 (I)	Cement pointing struck joints, on walls, up to 20' (6.00 m) height(1:2)	6050 ✓	19.97 ✓ MRS	P-Sft	120,833 ✓	6050 ✓	19.97 ✓ MRS	P-Sft	120,833 ✓	
7	(N.S)	Making and fixing steel grated doors, complete with locking arrangement, angle iron frame 2"x2"x3/8" (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) centre to centre	60 ✓	940.00 ✓	P-Sft	56,400 ✓	60 ✓	940.00 ✓	P-Sft	56,400 ✓	

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 4 Rehabilitations of disposal works (5 Nos)

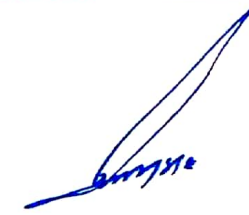
8	(N.S)	P/Fitting Electric <u>D-set three Phase</u>	1	10000.00	P-set	10,000	1	10000.00	P-set	10,000
9	Ch-11, P - 74 Item - 25	P/Fixing <u>1 1/4" G.I Pipe</u> ralling three rows as per Standard drawing	89	900.00	Sft	80,100	120	900.00	Sft	108,000
				<i>A.o.R attached</i>				<i>A.o.R attached</i>		
10	Ch-11, P - 74 Item.25	White washing two coats old surface	1650	2.14	Sft	3,537	1650	2.14	Sft	3,537
				<i>MRS</i>						
11	Ch-18, P - 111 Item.19	Providing and laying dry brick pavement/soling in streets or thickness of bricks roads, etc. sand grouted, laid in proper camber, in preparation, watering, compaction of bed to proper camber, for the purpose of measurement and sand cushion.	218	151.99	Cft	33,136	218	151.99	Cft	33,136
				<i>MRS</i>				<i>MRS</i>		
12	Ch-10, P - 70 Item - 43	P/L dry rammed brick or stone ballast 1 1/2" to 2" guage	3600	3670.90	%Cft	132,152	4817	3670.90	%Cft	176,827
				<i>MRS</i>				<i>MRS</i>		
13	Ch.10 Item No-43 .Page.No-70	Providing and laying Tuff pavers, having <u>7000PSI</u> , crushing strength of approved manufacturer, over <u>2" to 3" sand cushion</u> i/c grouting with sand in joints i/c finishing to require slope. <u>complete in all respect 60 mm thick</u>	7200	108.40	P-Sft	780,480	10000	108.40	P-Sft	1,084,000
				<i>MRS</i>				<i>MRS</i>		
14	Ch-23, P - 129 Item -1(d)	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft. (30 m) depth, including sinking and withdrawing of casing pipe, complete 6" (150 mm) i/d						242.15	P-Rft	-

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 4 Rehabilitations of disposal works (5 Nos)

15	Ch-23 , P -129 Item -2(b)	Boring for tubewell in all types of soil except shingle, gravel & rock, from a depth of 100.1 ft. to 200 ft. (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete:-					377.25	P-Rft	-	
16	Ch-23 , P -131 Item -11(b)	Providing and installing, P.V.C. strainer B.S.S. Class 'B', Chap. 2 in tubewell bore hole, including sockets and solvents, etc.complete:- 4" i/d (100 mm)					180.75	P-Rft	-	
17	Ch-23 , P -131 Item -12 C	Providing and installing P.V.C. strainer B.S.S. Class 'D', in tubewell bore hole, including sockets and vent, etc. complete:- 2" i/d (50 mm)					93.20	P-Rft	-	
18	Ch-23 , P -132 Item -13 (II C)	Providing and installing P.V.C. blind pipe, B.S.S. Class 'D', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete. 2" i/d (50 mm)					68.20	P-Rft	-	
19	N.S	Providing and Fixing <u>golda matic pump</u> G-III injector type with <u>2 BHP electric motor</u> with suction and delivery pipe <u>1"x1/4"</u> . (N.S)				1	28000.00	Each	28,000	
Total							1,685,134		2,531,173	

Quotation attached dully verified by Engineer Incharge



Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City
Sub Head No. 4 Rehabilitations of disposal works (5 Nos)

2.4.5-Rehabilitation of disposal works Zia Colony

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
						Original Estimate					
						Revised Estimate					
1	Ch-04 , P - 34 Item - 11	Dismantling dry brick masonry.	827 ✓	5.18 ✓ MRS	P-Cft	4,283 ✓	827 ✓	5.18 ✓ MRS	P-Cft	4,283 ✓	
2	Ch-04 , P - 34 Item - 13	Dismantling brick work in lime or cement mortar.	61 ✓	25.90 ✓	P-Cft	1,580 ✓	61 ✓	25.90 ✓	P-Cft	1,580 ✓	
3	Ch-03 , P - 27 Item - 1(a)	Earth filling o/Soil Levelling dressing ,compacting ,ramming ,watering <u>lead upto 3 miles</u>	3401 ✓	8.12 ✓ A.O.R checked	P-Cft	27,604 ✓	4950 ✓	8.12 ✓	P-Cft	40,176 ✓	
4	Ch-07 , P - 52 Item - 07	Pacca brick work other than building upto 10ft. (3 m) (1:5) i cement, sand mortar:-	1034 ✓	188.83 ✓ MRS	P-Cft	195,253 ✓	1700 ✓	188.83 ✓	P-Cft	321,015 ✓	
5	Ch-01 , P - 72 Item - 11 (b)	Cement plaster <u>1:5 upto 20' (6.00 m)</u> height:- (1:5)	1738 ✓	17.74 ✓ MRS	P-Sft	30,826 ✓	5477 ✓	17.74 ✓	P-Sft	97,143 ✓	
6	Ch-11 , P - 73 Item - 18	Cement pointing struck joints, on walls, up to 20' (6.00 m) <u>height(1:2)</u>	358 ✓	19.97 ✓ MRS	P-Sft	7,150 ✓	5477 ✓	19.97 ✓	P-Sft	109,389 ✓	
7	Ch-25,P - 156 Item - 30 (f)	Making and fixing steel grated doors, complete with locking arrangement, angle iron frame <u>2"x2"x3/8" (50x50x10 mm)</u> and <u>3/4" (20 mm) square bars 4" (100 mm) centre to centre</u>	60 ✓	940.00 ✓ MRS	P-Sft	56,400 ✓	60 ✓	940.00 ✓ MRS	P-Sft	56,400 ✓	
8	(N.S)	P/Fitting Electric D-set three Phase	1 ✓	10000.00 ✓	P-Set	10,000 ✓	1 ✓	10000.00 ✓	P-Set	10,000 ✓	
9	(N.S)	P/Fixing <u>1 1/4" G.I Pipe</u> ralling three rows as per Standard drawing	71 ✓	900.00 ✓	Rft	63,900 ✓	71 ✓	900.00 ✓	Rft	63,900 ✓	

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 4 Rehabilitations of disposal works (5 Nos)

10	Ch-11, P-74 Item - 25	White washing two coats old surface	1500 ✓	2.14 ✓ MRS	Sft	3,216 ✓	1500 ✓	2.14 ✓ MRS	Sft	3,216 ✓
11	Ch-18, P-111 Item - 19	Resoling	413 ✓	152.00 ✓ MRS	Cft	13,483 ✓	413 ✓	152.00 ✓ MRS	Cft	13,483 ✓
12	Ch-18, P-111 Item.19	Providing and laying dry brick pavement/soling in streets or thickness of bricks roads, etc. sand grouted, laid in proper camber, in preparation, watering, compaction of bed to proper camber, for the purpose of measurement and sand cushion.	907 ✓	152.00 ✓ MRS	Cft	137,863 ✓	907 ✓	152.00 ✓ MRS	Cft	137,863 ✓
Total						551,558 ✓				858,449 ✓
Grand Total						4,273,364				6,057,334

Contractor:

M/S Abdul Majeed Khan Sithari

Project Name:

Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 5 Supply & fixing of Manhole covers with CI base frame

Item No.	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
1	Supply of 6" thick <u>R.C.C./Plastic Reinforced composite (PRC)</u> manhole cover with tee shaped C.I. frame (frame weighing <u>37.324 Kg</u>) /PRC frame with clear opening of <u>22" i/d</u> and cover dia of <u>26"</u> as per standard drawing (Without labour charges for fixing)	190 ✓	7,841.25 ✓ MRS	No	1,489,838 ✓	190 ✓	7,841.25 ✓ MRS	No	1,489,838 ✓	
		TOTAL			1,489,838				1,489,838	



Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 6 Raising of manhole

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
Original Estimate						Revised Estimate					
1	Ch - 7, tem 7 i	Pacca brick work other than building upto 10ft. (3 m) (1:5) i cement, sand mortar:-	3682	18883.25	%Cft	695,281	1892.94	18883.3	%Cft	357,450	
				TOTAL		695,281				357,450	

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Sub Head No. 7 Rehabilitation of sullage carrier (2000 Rft) and new sullage carrier (44800Rft)

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
Original Estimate						Revised Estimate					
1	Ch-3 P-27, item -7	Earthwork excavation in open cutting upto 5'-0" (1.5 m) depth for storm water channels, drains, sullage drains in	25000 ✓	5,419.05 ✓ MRS	%0Cft	135,476 ✓	48250 ✓	5,419.05 ✓ MRS	%0Cft	261,469 ✓	
2	Ch-06 , P - 41 Item -2	P/L dry rammed brick or stone ballast 1 ½" to 2" gauge	2500 ✓	36.71 ✓ MRS	P-Cft	91,773 ✓	5111 ✓	36.71 ✓ MRS	P-Cft	187,620 ✓	
3	Ch-07 , P - 51 Item No- 4	<u>Pacca brick work F & P(1:5)</u>	16931 ✓	182.88 ✓ MRS	P-Cft	3,096,265 ✓	25987 ✓	182.88 ✓ MRS	P-Cft	4,752,386 ✓	
4	Ch-6 , P -41 Item -5	Cement concrete plain including compacting, finishing and curing complete (including screening and washing of stone aggregate)(1:2:4)	1542 ✓	230.17 ✓ MRS	P-Cft	354,920 ✓	2086 ✓	230.17 ✓ MRS	P-Cft	480,131 ✓	
5	Ch-01 , P - 72 Item -11 (b)	Cement plaster <u>1:5 up to 20'</u> (6.00 mm) height:- (1:5)	11000 ✓	17.74 ✓ MRS	P-Sft	195,102 ✓	23675 ✓	17.74 ✓ MRS	P-Sft	419,912 ✓	
Total for 2.14						3,873,536				6,101,518	

Contractor: M/S Abdul Majeed Khan Sithari
 Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City
 Street Light (Rehabilitation works)

Item No.	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
1	Supply and replacement of the existing lights with complete LED light <u>120 watts</u> including bracket, reflector, cover, arm, cables and wires and light drivers etc. with all other accessories required to fit the light in place and commission it. All parts/components of the LED light will be manufactured by the same manufacturer who will also offer <u>5 years</u> warranty for the LED lights	127 ✓	60000 ✓	No	7620000 ✓	0	60000 ✓	No	0	Quotation attached duly verified by Engineer Incharge
2	Provision of street light <u>LED 120 Watt</u> for the main road of M.C.L as per detailed specification briefed below. 1. SPECIFICATION OF LED LIGHTS 2. Technical Specifications LED lights fitting shall meet the following parameters	0	0	0	0	127 ✓	60000 ✓	No	7620000 ✓	

(i) The Engineer Incharge will be fully responsible to adhere to the technical specification of lights as provided in PEECA standards and will ensure that PCSIR/CERAD certifies that the lights conform to PEECA standards.

(ii) Revised specification of LED lights Energy Department vide letter No DOPP/252/LED/2014 dated 20-05-2014 be followed.

[Signature]
S.M.

2.1 Housing

- I. The fixture shall have a full die cast aluminum housing providing adequate rigidity. Strength and heat dissipation.
- II. The housing shall have integrated driver and LED compartments for better heat dissipation and both LED module & driver compartment must separate for convenience in maintenance at site to avoid driver and LED compartments thermal effect to each other.
- III. The optical LED component shall have thermally hardened glass cover and high quality silicone gaskets. The glass shall be extra white for maximum light transmission. The glass cover shall be tightly secured with the housing.
- IV. The housing shall feature high reflective components and films to increase light output.

2.2 Optics

- i. CRI must be 75 or better.
- 01. 4600 K 6500 K (user dependent)
- 011. The light output ration (LOR) shall not be less than 85%.
- IV. The luminaries shall offer the composite system efficacy of minimum of 125 lumens/watt.
- V. Unsure maximum spread of light by using any efficient technique shall carry define inner and outer profile for high efficiency LED to ensure maximum spacing between the road lighting poles and coverage of wider roads (according to centre/pole distance in meter and pole height).

Specifications of LED LIGHTS:

1. Fixture Aluminum hard powder coated with tempered hard clear glass with silicon Rubber Gas Kit IP 66.
2. The LED driver shall be Harvard, TCI, Phillips, Lumotech, Vossloh, Lightech or equivalent.
3. The LED chip shall be Phillips, lumileds, cree, Nichia, Osram or equivalent.
4. The lighting fixture shall have separate surge protection to protect the electronics driver and LED system.
5. The light output ratio (LOR) shall not be less than 95%.
6. The complete fixture including all accessories shall at least three years warranty.
7. Accessories shall be easily repairable/replaceable.
8. The Engineer Incharge will be fully responsible to adhere the technical specifications of LED lights as provided in PEECA standards and will ensure that PCIR / CERAD certifies that the light conforms to PEECA standards.
9. The specifications of LED lights Energy Department strictly be followed

VI. The multi layer optic design will be preferred for adequate luminance and luminance uniformity in the unlikely event of an individual LED failure.

VII. The optical (lens/ glass) system shall feature long life with no discoloration, highest possible light transmission and white painted circuit board for high reflectivity for maximum light output.

VIII. Plastic/ acrylic must not pale in warranty time.

Below mentioned test reports shall be submitted by manufacturer.

1. LM-79 for the luminaire being offered (Goniophotometric report must be provided).

2.3 Surge Protection

The lighting fixture shall have external surge protection to protect the electronic driver; minimum surge protection shall be 10KV.

2.4 IP Protection/ Impact resistance

The LED compartment of luminaire shall have ingress protection class IP-66 for long reliable performance and minimal maintenance requirements and impact resistance of IK08 or above. No chemical glue shall be used as that may cause breakdown of water proof, dust proof and corrosion proof.

Below mentioned test reports shall be submitted by manufacturer.

I. IEC 60529 or EM 60529 (IP) and EM 50102 (IK) degree for protection provided by enclosure (IP code for ingress protection and IK code for mechanical strength) or equaling (with supporting documentary evidence).


II. IEC 60068-2-68 ed 1.0 Environmental testing part2; test – test L: dust and sand or equaling (with supporting documentary evidence).



Specifications of LED LIGHTS:

<p>2.14 Testing of Lights I. The bidder will also provide the test reports from UET CERAD of the offered model with the technical proposal as per Punjab Energy Efficiency and Conservation Agency (PEECA) approved standards. II. The successor vendor facility shall be visited by MCL Engineers / representative to verify offered light fixture parameters such as lux intensity, power consumption, power factor, operating voltage range, total harmonic distortion (THD) etc. and for future up-gradation and warranty issues.</p>		1. Fixture Aluminum hard powder coated with tempered hard clear glass with silicon Rubber Gas Kit IP 66.	2. The LED driver shall be Harvard, TCI, Philips, Lumotech, Vossloh, Lightech or equivalent.	3. The LED chip shall be Philips, lumileds, cree, Nichia, Osram or equivalent.	4. The lighting fixture shall have separate surge protection to protect the electronic driver and LED system.	5. The light output ratio (LOR) shall not be less than 85%.	6. The complete fixture including all accessories shall at least three years warranty.	7. Accessories shall be easily repairable/replaceable.	8. The Engineer Incharge will be fully responsible to adhere the technical specifications of LED lights as provided in PEECA standards and will ensure that PCSIR / CERAD certifies that the light conforms to PEECA standards.	9. The specifications of LED lights Energy Department strictly be followed					
3	Supply and replacement of the existing lights with complete LED light 27-30 watts including bracket, reflector, cover, arm, wires or cables and light drivers etc. with all other accessories required to fit the light in place and commission it. All parts/components of the LED light will be manufactured by the same manufacturer who will also offer 5 years warranty for the LED lights	100	28000 ✓	Nos	2800000 ✓	0	28000	Nos	0						
4	Provision of street light <u>LED 27-30 Watt</u> for the main road of M.C.L as per detailed specification briefed below. 1. SPECIFICATION OF LED LIGHTS 2. Technical Specifications LED lights fitting shall meet the following parameters	0	0	0	0	100 ✓	28000 ✓	Nos	2800000 ✓						

Copy attached dully
 By Engineer Incharge


 Muhammad Usman (H.O)
 Punjab Local Govt. Board
 I.C. & S. D. Deptt.
 LAHORE.

Specifications of LED LIGHTS:

2.14 Testing of Lights

I. The bidder will also provide the test reports from UET CERAD of the offered model with the technical proposal as per Punjab Energy Efficiency and Conservation Agency (PEECA) approved standards.

II. The successor vendor facility shall be visited by MCL Engineers / representative to verify offered light fixture parameters such as lux intensity, power consumption, power factor, operating voltage range, total harmonic distortion (THD) etc. and for future up-gradation and warranty issues.

1. Fixture Aluminum hard powder coated with tempered hard clear glass with silicon Rubber Gas Kit IP 66.
2. The LED driver shall be Harvard, TCI, Philips, Lumotech, Vossloh, Lightech or equivalent.
3. The LED chip shall be Philips, lumileds, cree, Nichia, Osram or equivalent.
4. The lighting fixture shall have separate surge protection to protect the electronic driver and LED system.
5. The light output ratio (LOR) shall not be less than 85%.
6. The complete fixture including all accessories shall at least three years warranty.
7. Accessories shall be easily repairable/replaceable.
8. **The Engineer in charge will be fully responsible to adhere the technical specifications of LED lights as provided in PEECA standards and will ensure that PCSTR / CERAD certifies that the light conforms to PEECA standards.**
9. **The specifications of LED lights Energy Department strictly be followed**

5	Supply and installation of <u>photo-electric sensor switch</u> operated by day light for automatically switching on the lights in the evening and switching off the lights in the morning by operating the contactors for making and breaking the light circuits and mounted in the LT panel of below mentioned specifications with its light sensor mounted on the surface of LT panel at a location where it is not vulnerable to damage by any means. The switch should be capable of operating the magnetic coils of four contactors simultaneously.	6 ✓	2500 ✓	Nos	15000 ✓	6 ✓	2500 ✓	Nos	15000 ✓	
Total					10,435,000 ✓				10,435,000 ✓	



Contractor: M/S Abdul Majeed Khan Sithari
Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City
Rehabilitation Works Group-A
4- Office building equipment

Item No.	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
1	Supply and replacement of the existing tube lights , energy saver or other CFL with complete LED bulb 18 watts including supply and installation of bracket, bulb holder and all other accessories like wires or cables if required to fit the bulb in place and commission it. All parts/components of the LED bulb will be manufactured by the same manufacturer who will also offer 5 years warranty for the LED bulb.	200 ✓	400 ✓	Nos	80000 ✓	200 ✓	400 ✓	Nos	80000 ✓	<div style="border: 1px solid black; padding: 5px; transform: rotate(-15deg); display: inline-block;"> Quotation attached dully verified by Engineer Incharge </div>
Total (PKR)					80,000 ✓				80,000	



Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation works (Group A)

5 - Summary for water supply system (Filtration Plants)

Item No.	Description	BOQ		Revised BOQ		Remarks
		Quantity	Cost (Rs.)	Quantity	Cost (Rs.)	
1	Replacement of existing filtration plants components	3	500,000			
2	Replacement of hypo chlorinator for filtration plant Iqbal Park	1	72,000			
Total			572,000		-	

Project Name: **Rehabilitation of Municipal Services Infrastructure in Kot Addu City**
 Water supply system (Group-A)

Item No.	MRS-2019 Ref.	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
						Original Estimate	Revised Estimate				
1	N.S	Replacement of existing filtration plants components (3 Nos)	Job	500,000	No	500,000	Job	-	-	-	
Total for 03 Nos. filtration plants						500,000					
2	N.S	Supply and installation of Hypochlorinator (Electronic Metering Pump), solenoid type, flow rate: 0-30 GPD, pressure:150 psi with manual flow control, adjustable: 0-100% of maximum flow rate, 220 volts, 50 Hz, single phase, diaphragm type, non-corrosive material for indoor and outdoor installation made for injecting liquid chlorine for drinking water chlorination with standard accessories as given below: . (AOR Attached)	1	72,000	No	72,000	1	-	-	-	
		(1) 4' clear PVC flexible suction tubing									
		(2) 8' stiff white discharge tubing									
		(3) Foot valves strainer assembly									
		(4) 1/2" back pressure injection valve									
		(5) Bleed valve assembly with discharge									
		(6) Strainer weight									
		(7) Installation, operation, maintenance									
		(8) Container of 45 gallons capacity									
		Complete in all respects and as per directions of the Project Manager									
Total for 01 No. hypo-chlorinator						72,000					

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City
 Replacement of existing filtration plants components (3 Nos) (Group-A)

Item No.	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
1	Replacement of water tank capacity 30 Liters	12	2,500	Nos	30,000					
2	Replacement of bib cock best quality 1/2" dia	60	500	Nos	30,000					
3	Plate cablay etc for water tank	6	500	Nos	6,000					
4	Replacement of automatic switch	6	1,200	Nos	7,200					
5	Replacement of PVC pipe 1" dia	200	100	Rft	20,000					
6	Replacement of PVC pipe 2" dia	200	200	Rft	40,000					
7	Replacement of handle wall 1" dia	4	450	Nos	1,800					
8	Replacement of handle wall 2" dia	4	5,000	Nos	20,000					
9	Replacement of handle wall 1/2" dia	6	500	Nos	3,000					
10	Supply iodene salt	80	38	Kg	3,040					
11	Supply of chlorine dry	4	6,000	botal	24,000					
12	supply of rajoo clump	4	6,000	Nos	24,000					
13	Replacement of Elbow	4	450	Nos	1,800					

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City
Replacement of existing filtration plants components (3 Nos) (Group-A)

Item No.	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
14	Replacement of jublee clump	6	120	Nos	720					
15	Bush For cleaning	6	600	Nos	14,400					
16	Supply of filters for Purification Plant Size(20"x4")	78	1,300	Nos	101,400					
17	Supply of filters for Purification Plant Size(20"x2")	78	1,400	Nos	109,200					
18	Supply of Ultra violet lamp (20" Length)	1	22,440	No	22,440					
19	Supply of Batteries 27 Plate	1	22,000	No	22,000					
20	Supply of Batteries 21 Plate	1	19,000	No	19,000					
Total for 03 No. filtration plant					500,000					-

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation works (Group A)

6 - Summary for parks

Sr. No.	Subhead	BOQ Cost (Rs.)	Revised BOQ Cost (Rs.)	Remarks
1	Rehabilitation of existing facilities in Tooba Park	5,775,019	909,832	
2	Rehabilitation of existing facilities in Mumtaz Park	3,211,951	-	
3	Rehabilitation of existing facilities in Tayyaba Ladies Park	812,525	5,282,293	
	Total for parks	9,799,495	6,192,125	

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City
 6.1-Rehabilitation of existing facilities in Tooba Park (Group-A)

Boundary wall

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
Original Estimate						Revised Estimate					
1	Ch No 3 P No 30 Item No 21	Excavation in foundation of buildings, bridges and other structures including dag-belling, dressing, refilling around the structures with excavated earth, watering and ramming lead upto one chain and lift upto 5 feet in ordinary soil.				-	5119.28	6,434.20 MRS	%Cft	32,938	
2	Ch No 6 P No 41 Item No 3 d	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in f & plinth (i) 1:6:12 Ratio				-	828.84	11,021.55 MRS	%Cft	91,351	
3	Ch No 6 P No 41 Item No 5	Cement concrete plain including placing, compacting, finishing and curing complete (i/c washing of stone aggregate Ratio 1:2:4)	217.44	23,017 MRS	%Cft	50,047.84	217.44	23,017 MRS	%Cft	50,047.84	
4	Ch No 7 P No 51 Item No 4	Pacca brick work other than building upto 10ft (3 m) height (i) Cement, sand mortar - 1:5 Ratio	5433	18,838	%Cft	1,023,493				-	
5	Ch No 11 P.No 72 Item No 9	1/2" thick cement sand plaster on walls upto 20' heights in 1:4 Ratio	6040	1,860	%Sft	112,320				-	
6	Ch No 11 P.No 73 Item No 18	Cement pointing Struck joints 1:2 mixed with red oxide pigment etc complete	6040	1,873 MRS	%Sft	113,123	6040	1,873 MRS	%Sft	113,123	
7	N.S	Making and fixing of m/s grill to be fixed on boundary wall laying of m/s flat 1 1/2"x1/8" & 1/2" square bar horizontally and 1/2" square bar vertically @ rs 6.25" c/c with arrows of 1/2" square bar rings complete in all respect as approved by the engineer incharge									
Total						1,298,984				287,460	

Signature

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City
 6.1-Rehabilitation of existing facilities in Tooba Park (Group-A)

Gate Pillar Tooba Park

Item No.	MRS 2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
						Original Estimate	Revised Estimate				
8	Ch No 3 No 30 Item No 21	Excavation in foundation of buildings, bridges and other structures including dag-belling, dressing, refilling around the structures with excavated earth, watering and ramming lead upto one chain and lift upto 5 feet in ordinary soil.	81 ✓	6,434 ✓	%Cft	5,212 ✓	81 ✓				-
9	Ch No 6 P No 41 Item No 3	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in f & plinth (i) 1:4:8 Ratio	14 ✓	13,176 ✓	%Cft	1,845 ✓	14 ✓				-
10	Ch No 6 P No 42 Item No 6	RCC Work in Slab Colum, Beam, Lintel etc complete, base slab of colms and retaining walls etc 1:2:4	217 ✓	370 ✓	%Sft	803 ✓	217 ✓				-
11	Ch No 6 P No 43 Item No 9	Fabrication of mild steel reinforcement for cement concrete i/c cutting, bending, laying in position making joints and fastening i/c cost of binding wire and labour charges for binding steel (also i/c removal of rust from bars) Deformed Bars	665 ✓	14,903 ✓	%Sft	99,108 ✓	665 ✓				-
12	Ch No 11 P No 72 Item No 9	1/2" thick Cement Plaster 1:4 upto 20' height	84 ✓	1,859 ✓	%Sft	1,562 ✓	84 ✓				-
13	Ch-10, P- 70 Item -38	Coloured glazed tile dado (6"x6"x1/4") (6mm) thick in pigment over 1:2 cement, sand mortar 3/4"(20mm) thick, including finishing	270 ✓	17,201 ✓	%Sft	46,441.35 ✓	270 ✓				-
14	Ch-25, P- 56 Item -31	Providing and Fixing Steel grated door i/c all necessary work etc complete in all respect and as approved by the Engineer Incharge	270 ✓	1,084 ✓	Sft	292,545 ✓	270 ✓				-
15	Ch-13, P- 85 Item -4	Preparing surface and painting to doors and windows any type (including edges) 2-coats old surface	168 ✓	948 ✓	%Sft	1,593 ✓	168 ✓				-
Total						449,109 ✓					-

Project Name: **Rehabilitation of Municipal Services Infrastructure in Kot Addu City**
6.1-Rehabilitation of existing facilities in Tooba Park (Group-A)

Toilet Block Tooba Park

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
Original Estimate							Revised Estimate				
16	Ch No. 3 No 30 Item No 21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) in sand, ashes or loose soil b) in ordinary soil	428	6,434	%Cft	2,754	428				-
17	Ch No 6 P.No 41 Item No 2	Providing Laying dry rammed brick or stone ballast 1 1/2" to 2" gauge	107	3,671	%Cft	3,928	107				-
18	Ch No 7 P.No 51 Item No 4	Pacca brick work (1.5) in foundation and Plinth.	508	18,288	%Cft	92,901	508				-
19	Ch No 6 Item No 33	Providing and laying damp proof course of cement concrete 1 2 4 (using cement, sand and shingle), including bitumen coating - (a) with one coat bitumen and one coat polythene sheet 500 gauge i) 1 1/2" thick (40 mm)	74	4,825	%cft	3,570	74				-
20	Ch No 3 Item No 15	Filling, watering and ramming earth under floors with surplus earth from foundation, etc	285	3,083	%0Cft	878.66	285				-
21	Ch No 3 Item No 15	Filling, watering and ramming earth under floors with new earth excavated from outside lead upo one mile	334	9,286	%0Cft	3,101.52	334				-
22	Ch No 3, Item No 8	Excavation in open cutting for sewer manhole dressing to correct section 0 to 7' depth etc complete in all respect	576	5,966	%0Cft	3,436.68	576				-
23	Ch No.6 P.No 41 Item No 2	Providing Laying dry rammed brick or stone ballast 1 1/2" to 2" gauge.	48	3,671	%Cft	1,762.03	48				-
24	Ch No.7 P.No 51 Item No 7	Pacca brick work (1.4) other than building up to 10' height	262	19,435	%Cft	50,918.39	262				-

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

6.1-Rehabilitation of existing facilities in Tooba Park (Group-A)

36	Ch No 23 Item No 13	Providing and installing PVC Bail plug in tubewell bore hole 2" dia	1	68	No	68.20	1						
37	Ch No 23 Item No 9	Providing and installing, brass strainer in tubewell bore hole, including sockets, special sockets, studs, etc a) 2" dia	10	854	Rft	8,543	10						
38	Ch No 23 Item No 16	Providing and installing P V C blind pipe, B S S Class 'D', in tubewell bore hole u/c sockets & solvents & jointing with strainer, etc. complete 4" dia	30	317	Rft	9,522	30						
39		2" dia Pipe	60	98	Rft	5,901	60						
40		1 1/4" dia Pipe	80	59	Rft	4,680	80						
41	N S	1" dia Pipe	30	45	Rft	1,354	30						
42	N S	P/F of Goldmatic ejector pump with 1 BHP electric motor best quality etc complete in all respect as approved by the Engineer Incharge	1	10,000	No	10,000	1						
43	Ch-10, P-70 Item -38	P/L porcelain tiles 24"x12" size laid over 3/4" thick cement mortar 1:2 u/c finishing etc complete in all respect as approved by the Engineer Incharge	246	217	P-Sft	114,251	246						
44	Ch-12, item no 49	P/F 1 1/2" thick solid flush door shutter (Approved Factory Manufactured) with commercial ply on both sides double pressed and deodar wood lipping 1 1/2"x3/8" around shutter including chromium plated fitting, iron hinges with aluminum kick plate 22 SWG on both sides & finger plate complete in all respect Providing and fixing mild steel chowkat of doors, windows, C window, etc u/c holdfast, making and threading holes for hinges, etc. complete M.S angle iron 1 1/2"x 1 1/2"x 1/4" welded with M.S flat 2"x 1/4"	63	610	Sft	38,430	63						
45	Ch-24, item no 10	S/E of single core PVC insulated copper conductor cables, in pre-laid PVC pipe/M.S conduit G I pipe/wooden strip batten/wooden casing an capping/G I wire/trenches (rate for cables only)250/440 volts, PVC insulated (3/0 029")	200	12	Rft	2,340	200						
46	Ch-24, item no 10	(7/0 029")	100	16	Rft	1,595	100						

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

6.1-Rehabilitation of existing facilities in Tooba Park (Group-A)

47	Ch-24 , item no 13	S/E of copper conductor cables for service connection, in pre-laid pipe/G.I. wire/trenches, etc. PVC insulated, PVC sheathed twin core, 250/440 volts(rate for cable only)- 7/0.91 mm (7/0.036")	50	49	Rft	2,470	50	-			
48	24/31 (ii)	Supply and erection of switches 5 Amp ii) piano type	16	35	No	558	16	-			
49	24/34	Supply and erection of 3 pin 5 Amp wall socket	2	81	No	162	2	-			
50	N.S	Supply and erection of LED bulb 18 W with one choke and one starter	3	400	No	1,200	3	-			
51	N.S	P/F of plastic made water tank 500 gallon capacity etc complete in all respect as approved by the Engineer Incharge	1	10,000	No	10,000	1	-			
52	23/22	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline 0.75" in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves. Medium Quality	104	111	Rft	11,544	104	-			
53	19/03	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest	1	1,430	No	1,430	1	-			
54	19/01	Providing and fitting glazed earthen English type Commode best quality etc complete in all respect	1	2,370	No	2,370	1	-			
55	19/06	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. coloured, with pedestal	1	2,699	No	2,699	1	-			
56	19/34	Providing and fitting "P" trap 10 cm (4") glazed	3	472	No	1,416	3	-			
57	19/31	Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (1/2") dia. single way	1	377	No	377	1	-			
58	19/27	Providing and fixing chromium plated tee stop cock 1/2" dia	1	455	No	455	1	-			
59	23/22	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline 0.75" in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves. Medium Quality 2" dia	23	111	Rft	2,553	23	-			

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

6.1-Rehabilitation of existing facilities in Tooba Park (Group-A)

60	N.5	Providing and fixing Pressure Tanki with automatic switch etc complete in all respect as approved by the Engineer Incharge	1 ✓	3,000 ✓	No	3,000 ✓	1 ✓						
61	23/26	Providing and fixing chromium plated bib cock 1/2" dia	12 ✓	335 ✓	No	4,018 ✓	12 ✓						
Total Rs						625,992 ✓							

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City
 6.1-Rehabilitation of existing facilities in Tooba Park (Group-A)

Rehabilitation of Walking Track Tooba Park Kot Addu

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
Original Estimate						Revised Estimate					
62	Ch No 3 Item No 15	Filling, watering and ramming earth under floors with new earth excavated from outside lead upto one mile	63756	9,286	%CB	592,038.22	186640				
63	N 5	Providing and Fixing precast kerb stone (4" to 6") and 14" high of compressive strength of 3500 PSI laid in cement sand mortar (1:3) over brick masonry for drain cum footpath etc complete in all respect as approved by the Engineer Incharge	4328	201	P-RB	869,928	4328				
65	Ch 18 Item No-4 Page No 1-08	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work except gravel and aggregate Pitrun Gravel or bed run gravel	6156	6,314	%CB	388,665	8824.53				
66	Ch 10 Item No-43 Page No-70	Providing and laying Tuff pavers, having crushing strength of approved manufacturer, over 2" to 3" sand cushion &c grouting with sand in joints &c finishing to require slope, complete in all respect, 50 mm thick	6000	92	P-SB	552,300	26741				
67	Ch 03 Item No-32 Page No-31	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km) and maintenance for 15 days)	63756	1,016	%SB	647,442	63756				
68	N 5	Canopies with iron structure and fibre glass A class top 10x10									
69	N 5	Benches for park									
70	N 5	Water fountain for park with Art Work fiber glass									
71	N 5	Garden Lights									
72	N 5	LED Lights 30 Watt									
			Total			3,050,373					

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City
 6.1-Rehabilitation of existing facilities in Tooba Park (Group-A)

Rehabilitation of water supply system Tooba Park

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
			Original Estimate				Revised Estimate				
73	Ch-23, P-133 Item - 15(d)	Providing and installing P.V.C. blind pipe, B.S.S. Class 'B', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete 6" i/d (150 mm)	500	366	Rft	182,800	500				
74	Ch-23, P-133 Item - 15(a)	3" i/d (75 mm)	400	135	Rft	53,900	400				
75	Ch-23, P-129 Item - 1(b)	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft. (30 m) depth, including sinking and withdrawing of casing pipe, complete 4" (100 mm) i/d	100	88	Rft	8,775	100				
76	Ch-23, P-132 Item - 13(c)	Providing and installing P.V.C. Bail-End plug, in tubewell bore hole B.S.S. Class 'D' 2" i/d (50 mm)	1	68	No	68	1				
77	Ch-23, P-133 Item - 16(c)	Providing and installing P.V.C. blind pipe, B.S.S. Class 'D', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete 2" i/d (50 mm)	10	99	Rft	985	10				
78	Ch-23, P-133 Item - 16(e)	Providing and installing P.V.C. blind pipe, B.S.S. Class 'D', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete 4" i/d (100 mm)	30	317	Rft	9,522	30				
79	Ch-23, P-133 Item - 16(e)	2" i/d (50 mm)	60	99	Rft	5,721	60				
80	Ch-23, P-133 Item - 16(e)	1 1/2" i/d (30 mm)	80	59	Rft	4,512	80				
81	Ch-23, P-133 Item - 16(e)	1" i/d (30 mm)	30	45	Rft	1,354	30				
82	N.S	Providing and fixing Goldmatic ejector pump with 7 BHP electric motor copper rewinding best quality etc complete in all respect as approved by the Engineer Incharge	1	45,000	No	45,000	1				
83	23/32	Providing and fixing, fire hydrants B.S.S. quality and weight of 2 1/2" (65 mm) dia (including cost of jointing material)	8	4,741	No	37,925	8				
					Total	350,562					
						5,775,019					
		Grand Total for Tooba Park									287,460

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City
Rehabilitation of existing facilities in Mumtaz Park (Group-A)

Grill

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
Original Estimate						Revised Estimate					
1	Ch-6 , P -42 Item -6 ©	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast Type (nominal mix 1: 2: 4)	911 ✓	370.05 ✓ MRS	Cft	337,116 ✓					-
2	Ch-6 , P -43 Item -9	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) Deformed bars (Grade-40)	1861 ✓	149.03 ✓	Kgs	277,353 ✓					
3	Ch-11 , P -72 Item -9	1/2" thick cement sand plaster on walls upto 20' heights in 1:4	3035 ✓	18.60 ✓	Sft	56,440 ✓					
4	N.S	Making and fixing of m.s grill to be fixed on boundary wall laying of m.s flat 1 1/2"x1/8" & 1/2" square bar horizontally and 1/2" square bar vertically @ rs.6.25" c.c with arrows of 1/2" square bar rings complete in all respect as approved by the engineer incharge.	3035 ✓	540.00 ✓	Sft	1,638,900 ✓					

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation of existing facilities in Mumtaz Park (Group-A)

5	Ch.10 Item No-43 .Page.No-70	Providing and laying Tuff pavers, having crushing strength of approved manufacturer ,over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. 50-mm thick	3000 ✓	92 ✓ m ² s	P-Sft	276,150 ✓							
Total						2,585,959							



Project Name:

Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation of existing facilities in Mumtaz Park (Group-A)

Rehabilitation of toilet block Mumtaz Park

Item No.	MRS-2nd 2019 Ref	Item of Work	Original Estimate				Revised Estimate				Remarks
			Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	
1	2	3	4	5	6	7	4	5	6	7	
1	Ch No. 3.No 30 Item No 21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) in sand, ashes or loose soil b) in ordinary soil.	428 ✓	6,434 ✓	%0Cft	2,754 ✓					
2	Ch No.6 P.No 41 Item No 2	Providing Laying dry rammed brick or stone ballast <u>1 1/2" to 2" gauge.</u>	107 ✓	3,671 ✓	%Cft	3,928 ✓					
3	Ch No.7 P.No 51 Item No 4	Pacca brick work (1:5) in foundation and Plinth.	508 ✓	18,288 ✓	%Cft	92,901 ✓					
4	Ch No.6 Item No 33	Providing and laying damp proof course of cement concrete 1:2:4 (using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500gauge i) <u>1 1/2" thick (40 mm)</u>	74 ✓	4,825 ✓	%cft	3,570 ✓					
5	Ch No.3 Item No 15	Filling, watering and ramming earth under floors with surplus earth from foundation, etc.	285 ✓	3,083 ✓	%0Cft	879 ✓					

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation of existing facilities in Mumtaz Park (Group-A)

6	Ch No.3 Item No 15	Filling, watering and ramming earth under floors with new earth excavated from outside lead up one mile	334 ✓	9,286 ✓	%0Cft	3,102 ✓					
7	Ch No 3, Item No 8	Excavation in open cutting for sewer manhole dressing to correct section 0 to 7' depth etc complete in all respect	576 ✓	5,966 ✓	%0Cft	3,437 ✓					
8	Ch No.6 P.No 41 Item No 2	Providing Laying dry rammed brick or stone ballast 1 1/2" to 2" gauge.	48 ✓	3,671 ✓	%Cft	1,762 ✓					
9	Ch No.7 P.No 51 Item No 7	Pacca brick work (1:4) other than building up to 10' height	262 ✓	19,435 ✓	%Cft	50,918 ✓					
10	Ch No.6 P.No 41 Item No 5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate (1:2:4))	12 ✓	23,017 ✓	%cft	2,762 ✓					
11	Ch No.7 P.No 51 Item No 4	Pacca brick work 1:5 in ground floor	334 ✓	19,403 ✓	%Cft	64,807 ✓					
12	Ch No.6 P.No 42 Item No 6	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast 3) in situ, complete in all respects 1:2:4	78 ✓	370 ✓	P-Cft	28,864 ✓					

Project Name:

Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation of existing facilities in Mumtaz Park (Group-A)

13	Ch No.6 P.No 42 Item No 6	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- (3) Type C (nominal mix 1: 2: 4)	48 ✓	258 ✓	P-Cft	12,360 ✓					
14	Ch No.6 P.No 43 Item No 9	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (b) deformed bars (40 Grade)	386 ✓	14,903 ✓	%Kgs	57,527 ✓					
15	Ch No.11 P.No 73 Item No 18	Cement pointing struck joints, upto 20 ft a) 1:2 Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	478 ✓	2,288 ✓	%Sft	10,936 ✓					
16	Ch No.11 P.No 72 Item No 9	1/2" thick cement plaster 1:4 upto 20' height	1474 ✓	1,859 ✓	%Sft	27,405 ✓					
17	Ch No.7 Item No 30	Supplying and filling sand under floor; or plugging in wells.	56 ✓	1,814 ✓	%Cft	1,016 ✓					
18	Ch No.10 Item No 3	Providing, laying, watering and ramming brick ballast 1½" to 2" (40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	56 ✓	4,090 ✓	%Cft	2,291 ✓					

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation of existing facilities in Mumtaz Park (Group-A)

19	Ch No.6 P.No 41 Item No 5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate (1:2:4)	22 ✓	23,017 ✓	%Cft	5,064 ✓				
20	Ch No.23 Item No 1	Boring of tube well in all kind of soil except shingle gravel 4" dia complete	100 ✓	88 ✓	Rft	8,775 ✓				
21	Ch No.23 Item No 13	Providing and installing PVC Bail plug in tubewell bore hole: 2" dia	1 ✓	68 ✓	No	68 ✓				
22	Ch No.23 Item No 9	Providing and installing, brass strainer in tubewell bore hole, including sockets, special sockets, studs, etc a) 2" dia	10 ✓	854 ✓	Rft	8,543 ✓				
23	Ch No.23 Item No 16	Providing and installing P.V.C. blind pipe, B.S.S. Class 'D', in tubewell bore hole i/c sockets & solvents & jointing with strainer, etc. complete. 4" dia	30 ✓	317 ✓	Rft	9,522 ✓				
ii		2" dia Pipe	60 ✓	98 ✓	Rft	5,901 ✓				
iii		1 1/4" dia Pipe	80 ✓	59 ✓	Rft	4,680 ✓				
iv		N.S	1" dia Pipe	30 ✓	45 ✓	Rft	1,354 ✓			
24	N.S	P/F of Goldmatic ejector pump with 1 BHP electric motor best quality etc complete in all respect as approved by the Engineer Incharge.	1 ✓	10,000 ✓	No	10,000 ✓				
25	Ch-10 , P - 70 Item -38	P/L percelain tiles 24"x12" size laid over 3/4" thick cement mortar 1:2 i/c finishing etc complete in all respect as approved by the Engineer Incharge	246 ✓	217 ✓	P-Sft	114,251 ✓				

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation of existing facilities in Mumtaz Park (Group-A)

26	Ch-12 , item no 49	P/F <u>1½"</u> thick solid flush door shutter (Approved Factory Manufactured) with commercial ply on both sides double pressed and deodar wood lipping 1½"x3/8" around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect Providing and fixing mild steel chowkat of doors, windows, C.window, etc. i/c holdfast, making and threading holes for hinges, etc. complete M.S. angle iron 1½"x 1½"x ¼" welded with M.S. flat 2"x ¼"	63 ✓	610 ✓	Sft	38,430 ✓						
27	Ch-24 , item no 10	S/E of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only)250/440 volts, PVC insulated (3/0.029")	200 ✓	12 ✓	Rft	2,340 ✓						
	Ch-24 , item no 10	(7/0.029")	100 ✓	16 ✓	Rft	1,595 ✓						
28	Ch-24 , item no 13	S/E of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. PVC insulated, PVC sheathed twin core, 250/440 volts(rate for cable only):- 7/0.91 mm (7/0.036")	50 ✓	49 ✓	Rft	2,470 ✓						
29	24/31 (ii)	Supply and erection of switches 5 Amp. ii) piano type	16 ✓	35 ✓	No	558 ✓						
30	24/34	Supply and erection of 3 pin. 5 Amp wall socket.	2 ✓	81 ✓	No	162 ✓						

Project Name:

Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation of existing facilities in Mumtaz Park (Group-A)

31	N.S	Supply and erection of tube light, single rod (40 watts) with one choke and one starter.	3 ✓	400 ✓	No	1,200 ✓					
32	N.S	P/F of plastic made water tanki 500 gallon capacity etc complete in all respect as approved by the Engineer Incharge.	1 ✓	10,000 ✓	No	10,000 ✓					
33	23/22	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves. Medium Quality	104 ✓	111 ✓	Rft	11,544 ✓					
34	19/03.	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.	1 ✓	1,430 ✓	No	1,430 ✓					
35	19/01.	Providing and fitting glazed earthen English type Commode best quality etc complete in all respect	1	2,370 ✓	No	2,370 ✓					
36	19/06.	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. coloured, with pedestal	1	2,699 ✓	No	2,699 ✓					
37	19/34.	Providing and fitting "P" trap 10 cm (4") glazed.	3 ✓	472 ✓	No	1,416 ✓					
38	19/31.	Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (½") dia. single way	1 ✓	377 ✓	No	377 ✓					

Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation of existing facilities in Mumtaz Park (Group-A)

39	19/27.	Providing and fixing chromium plated tee stop cock 1/2" dia	1	455	No	455					
40	23/22	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves. Medium Quality 2" dia	23	111	Rft	2,553					
41	N.S	Providing and fixing Pressure Tanki with automatic switch etc complete in all respect as approved by the Engineer Incharge	1	3,000	No	3,000					
42	23/26	Providing and fixing chromium plated bib cock 1/2" dia	12	335	No	4,018					
Total Rs						625,992					-
Grand Total						3,211,951					-



Project Name: Rehabilitation of Municipal Services Infrastructure in Kot Addu City

Rehabilitation of existing facilities in Tayyaba Ladies Park (Group-A)

Item No.	MRS-2nd 2019 Ref	Item of Work	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	7	4	5	6	7	
Original Estimate						Revised Estimate					
1	N.S	Providing fixing swing double seater with all accessories with foundation etc complete in all respect	2	250000	Set	500,000	2	250000	Set	500,000	<div style="border: 1px solid black; padding: 5px; transform: rotate(-15deg); display: inline-block;"> Quotation attached dully verified by Engineer Incharge </div>
2	N.S	Supply and replacement of the existing lights with complete LED light 27-30 watts including bracket, reflector, cover, arm, wires or cables and light drivers etc. with all other accessories required to fit the light in place and commission it. All parts/components of the LED light will be manufactured by the same manufacturer who will also offer 5 years warranty for the LED lights	10	28000	Nos	280,000	10	28000	Nos	280,000	
3	N.S	Replacement of inefficient energy sewer with 18 watt LED bulb holder with shade etc	20	400	Nos	8,000	20	400	Nos	8,000	
4	Ch-24 , item no 10	supply of Cable 7/0.064 single core	250	75.7	Rft	18,925	250	75.7	Rft	18,925	
5	Ch-24 , item no 13	supply of Cable 7/0.029 twin core	160	35	Rft	5,600	160	35	Rft	5,600	
	Ch No.4 P.No 36 Item No 29	Dismantling brick / Tuff tile or flagged flooring without concrete foundation.				-	13278.1	517.9	%Sft	68,767	

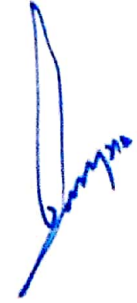
Ch No.3 P.No 29 Item No 15	Filling, watering and ramming earth under floors with new earth excavated from outside lead upto one mile					13590.6	8.12 9,286 A-c-r attached	CH %0Cft	126,202	The payment will be made as per actual work done according to "X & L" Section & lead responsibility lies with Engg. In-charge
Ch No.20 P.No 119 Item No 2b	Pacca flat brick 3" (75 mm) thick, laid in reimbursement, in cement, sand mortar, on sides of drains and in other works where required. All joints to be completely filled and struck flush 1:5				1849.5	5518.25 MRS	%Sft	102,060		
Ch No.7 P.No 52 Item No 7	Pacca brick work other than building upto 10ft. (3 m) height. i) Cement, sand mortar:- 1: 5 Ratio.				1261.19	18,883.45 MRS	%Cft	238,156	Nearest Govt. approved quarry and shortest route responsibility of Engineering Incharge	
Ch.18 Item No-4 .Page.No. 108	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work except gravel and aggregate. Pitrun Gravel or bed run gravel.				4381.77	6,313.6 A-c-r attached	%Cft	276,648		
Ch.10 Item No-43 .Page.No- 70	Providing and laying Tuff pavers, having 7000PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect 60 mm thick Waistage 13278x30% = 3983.4Sft				4296	108.40 MRS	P-Sft	465,686		
Ch.21 Item No-10 .Page.No. 123	Restoration of brick pavement / Tuff Tile on edge, over laid service line, with 2" (50 mm) sand cushion under soling. Restoration 13278 x 30% = 3983.4 Sft				9294.6	16.25 3,286.90 Per Sft	%Sft	305,504		

Ch No.11 P.No 72 Item No 9	1/2" thick cement sand plaster on walls upto 20' heights in 1:4					8685.32 ✓	1859.45 ✓ MRS	%Sft	161,499 ✓
Ch No.11 P.No 73 Item No 22	Priming coat of chalk under distemper.					8566.07 ✓	151.95 ✓ MRS	%Sft	13,016 ✓
Ch No.11 P.No 73 Item No 23	Distemping new surface (three coats)					8566.07 ✓	715.20 ✓ MRS	%Sft	61,265 ✓
Ch No.6 P.No 41 Item No 5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):(Ratio 1: 2: 4)					186 ✓	23,016.85 ✓ MRS	%Cft	42,811 ✓
N.S	Making and fixing of m.s grill to be fixed on boundary wall laying of m.s flat 1 1/2"x1/8" & 1/2" square bar horizontally and 1/2" square bar vertically @ rs.6.25" c.c with arrows of 1/2" square bar rings complete in all respect as approved by the engineer incharge.					1339.2 ✓	540.00 ✓ A-o-R attached	Sft	723,168 ✓
Ch No.13 P.No 85 Item No. 4(d)	Painting guard bars, gates of iron bars, gratings, railing (including standards, braces etc.) and similar					1339.2 ✓	1268.30 ✓ MRS	%Sft	16,985 ✓
N.S	Canopies with iron structure and fibre glass A class top 10x10 <i>1/2 civil work</i>					3 ✓	400000.00 ✓	Each	1,200,000 ✓
N.S	Benches for park <i>3 seated with back</i>					12 ✓	9000.00 ✓	Each	108,000 ✓
N.S	Water fountain for park					1 ✓	150000.00 ✓	Each	150,000 ✓
N.S	Garden Lights <i>Pole 1/2 foundation</i>					20 ✓	8000.00 ✓	Each	160,000 ✓

Quotation attached duly verified by Engineer Incharge

	N.S	Women sculpture for park Fiber glass A class				1	250000.00	Each	250,000
					812,525				5,282,293

Quotation attached duly
verified by Engineer Incharge



OFFICE OF CHIEF ENGINEER(HQ)
Even No. CE(HQ)PLGB-TS/2021 Lahore
PUNJAB LOCAL GOVERNMENT BOARD LAHORE
Dated Lahore the 16th March 2021

To

Municipal Officer(I&S),
Municipal Corporation,
Kot Addu.

Subject:-

**REVISED TECHNICAL SANCTION OF THE SCHEME NAMED
REHABILITATION OF MUNICIPAL SERVICES INFRASTRUCTURE IN
KOT ADDU CITY AMOUNTING TO RS.18.62 MILLION (REPAIR WORK
GROUP-B).**

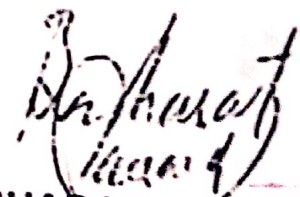
Reference your letter No.MC/KA/143 Dated 15.03.2021 on the subject noted above.

2. The technical sanction is accorded subject to the fulfillment of following requirement prior to award of contract:-

1. The Technical Sanction is subject to valid charge, provision of requisite funds, Administrative Approval as per scope and item work provided in the detailed estimate, mutation / transfer of requisite land in the name of department and no complaint / inquiry already being conducted by any Department regarding execution of the Project.
2. The competent authority of the executing agency and the engineer incharge shall ensure that the work is carried out after observation of all financial, codal formalities and strictly in accordance with the sanctioned estimate / specifications of tender accepting authority. The responsibility of the rate shall rest on the authority approving the rates, as the rates provided in the estimate are for estimation purpose only. The tender accepting authority shall also check and satisfy himself regarding quality, durability, economy and lowest market rate in the actual before accepting the rates of supply item. The payment shall be made as per quantity of each item of works/actual work executed at site after record entries with specification and nomenclature as the quantity of each items of works in the estimate is for estimation purpose only and shall not confer any authority for its payment.
3. The quantity of each item of work taken in the estimate is for estimation purpose only. The exact quantity of earth work will be worked out after conducting leveling before executing of earth work. X-section and

longitudinal sections of the earth work be provided in order to avoid possibility of any wrong payment besides preparation of lead chart of E/W showing borrowing areas specifying exact Khasra and Khatoni numbers.

4. The non-schedule rates as contained in the estimate are for estimating purpose only and should not be taken as authority for payment. The payment of such item will also be made according to the lowest rate quoted by the contractor after observation of all financial and codal formalities and cannot be made more than the approved rates.
5. **The credit for existing or old dismantled materials should be afforded to the project in accordance with the codal rules and financial procedure properly.**
6. **The Engineering incharge will certify before making payment be there is no over lapping of the work / item of work to avoid any wrong payment. He shall also check and satisfy regarding quality and durability of all items of works before making the payment.**
7. **Picture of existing condition of civil works before execution.**
8. **Detail drawing/rate analysis along with specifications of winching machines would be strictly observed before making payment.**



(BASHARAT JAVAID)
CHIEF ENGINEER(NORTH)
PUNJAB LOCAL GOVT. BOARD
LAHORE

Project Name : Rehabilitation of Municipal Services Infrastructure in Kot Addu City
Repair Works Group-B

Head No.	Description	BOQ Amount (Rs)	Revised BOQ Amount (Rs)	Remarks
1	Solid waste management			
2	Sewerage system	8,275,620	8,711,370	
3	Street lights	5,959,245	6,595,445	
4	Office building equipment	-	6910445	
5	Water supply system	-	-	
6	Parks	-	-	
Total Work outlay		14,234,865	15,306,815	
	Contingencies @ 2%	284,697	306,136	15621815 ✓
	Punjab Sales Tax @ 16%	2,277,578	2,449,090	312436 ✓
	Horticulture @ 1%	142,349	153,068	2499490 ✓
	Public awareness @ 0.25%	35,587	38,267	156218 ✓
	Grand Total	16,975,076	18,253,376	39054 ✓
				18629013 ✓
				1,86,29,000/-

[Signature]
 Sub-Engineer,
 Municipal Committee,
 Kot Addu.

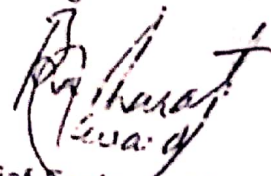
[Signature]
 Municipal Officer (Infrastructure),
 Municipal Committee
 Kot Addu

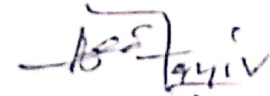
Estimate Technically sanctioned for Rs. 1,86,29,000/-
 i.e. Rupees one crore Eighty six lac and Twenty Nine Thousand only;

- All code formalities should be completed before making payment on competition basis/lowest market rates.
- The credit of existing old material should be afforded to the project in accordance with the rules and financial procedure properly.
- The Engineer incharge will certify before making payment i.e. there is no overlapping of the work to avoid any wrong payment

2. All terms of funds and order for its commencement issued by competent authority.
3. The terms of contract are strictly enforced.
4. All legal formalities should be ensured before commencement of work.
5. Provisions of Section 4(5) & 5(2) of the Punjab Local Government (Works) Rules, are adhered.
6. Technical analysis/rate analysis of non-standardized items is incorporated with the estimate on the basis of technical features and lowest market quotations.
7. Feasibility and drawings, L&X Sections are based on site and parameters contained in the estimate.
8. The credit for existing or old dismantled materials should be afforded to the project in accordance with the codal rules and financial procedure properly.
9. Quality control tests of the materials, if required, shall be carried out and reports annexed with file.
10. The contractor or his responsible agent shall remain present during execution of work at site and will comply with orders and instruction of the Engineer for faithful completion of scheme.
11. If at any time, during execution of work, any alteration, addition, omission or substitution may be brought into the notice of undersigned and approval for such alteration/addition shall be obtained from competent forum.
12. The Engineer Incharge is responsible to ensure the lowest market rates/rate analysis of non-standardized items.
13. The payment will be made as per actual work done according to quality and quantity.

- (v) Detail drawing/rate analysis and specifications should strictly be observed before making payment.
- (vi) Picture of existing condition of works before execution.
- (vii) The payment will be made as per actual work done according to quality, quantity and specifications.


 Chief Engineer (H.Q)
 Punjab Local Govt. Board
 L.G. & C D. Deptt.
 LAHORE.


 D-14.

Project Name :

Rehabilitation of Municipal Services Infrastructure in Kot Addu City
2. (Sewerage System) Repair Works (Group-B)

Sr. No.	Subhead	BOQ		Revised BOQ		Remarks
		Quantity	Cost	Quantity	Cost	
1	Repair of Sullage Pumping units, pen stock, screens sluice valves non-return valves <i>detail attached</i>	08 Nos	3,094,345	08 Nos	3,094,345	
2	Repair of sucker machine including suction pipe, & overhauling of engines <i>-do-</i>	01 No.	600,000	01 No.	838,200 1153200	
3	Repair of jetter machine including jetting pipe & overhauling of engines <i>-do-</i>	01 No.	178,000	01 No.	898,000	
4	Repair of dewatering sets including suction & delivery pipes with all accessories <i>-do-</i>	13 Nos	780,000	13 Nos	780,000	
5	Repair of Generators 100 KVA <i>-do-</i>	03 Nos	984,900	03 Nos	984,900	
Total for (PKR)			5,637,245		6,595,445 6910445	

Long
S.E

INSTRUCTIONS

- The Engineer incharge and subordinate staff shall be responsible for-
1. Execution of work in accordance with specifications contained in the estimate;
 2. Advancement of funds and order for its commencement issued by competent authority.
 3. Conditions of contract are strictly enforced.
 4. All technical conditions should be ensured before commencement of work.
 5. Provisions in Section 4(5) & 5(2) of the Punjab Local Government (Works) Rules, are adhered.
 6. Technical and rate analysis of non-standardized items is incorporated with the estimate on the basis of technical specifications and lowest market quotations.
 7. Feasibility and drawings/LOX Sections are based on site and parameters contained in the estimate.
 8. The credit for existing or old dismantled materials should be afforded to the project in accordance with the codal rules and financial procedure properly.
 9. Quality control tests of the materials, if required, shall be carried out and reports annexed with file.
 10. The contractor or his responsible agent shall remain present during execution of work at site and will comply with orders and instruction of the Engineer for faithful completion of scheme.
 11. If at any time, during execution of work, any alteration, addition, omission or substitution may be brought into the notice of undersigned and approval for such alteration/addition shall be obtained from competent forum.
 12. The Engineer incharge is responsible to ensure the lowest market rates/rate analysis of non-standardized items

Group-B (Repair Works)

1 - Solid waste management (Repair Works)

Sr. No.	Subhead	BOQ		Revised BOQ		Remarks
		Quantity	Cost	Quantity	Cost	
1	Repair of tractors including overhauling of engines	9 Nos	2,502,430	9 Nos	2,938,180	✓
2	Repair of trolleys including jacking system	04 Nos	444,000	04 Nos	444,000	✓
3	Repair of container carrier including & jacking system	02 Nos	89,200	02 Nos	89,200	✓
4	Repair of loader rickshaws	22 Nos	649,990	22 Nos	649,990	✓
5	Repair of water bowsers including peeter, tank, shower system, fire system	02 Nos	1,090,000	02 Nos	1,090,000	✓
6	Repair of fire lori & fire fighting equipment	01 No.	3,500,000	01 No.	3,500,000	✓
	Total (PKR)		8,275,620	-	8,711,370	

S.B.

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks	
1	2	3	4	5	6	3	4	5	6		
					Original Estimate			Revised Estimate			
I. Solid Waste Management											
I. Repair of tractors including overhauling of engines											
	Tractor MF-240 (05 No's) Johndeer		Tractor (02 No's) SNH		Tractor (1)=08 No's						
1	Valve guide (itley)	1	4028	Set	4,028	1	4028	Set	4,028	✓	
2	piston set	1	7500	Set	7,500	1	7500	Set	7,500	✓	
3	CR bush	1	1100	set	1,100	1	1100	set	1,100	✓	
4	main and big end bearings	1	3690	Set	3,690	1	3690	Set	3,690	✓	
5	thrust warchal	1	1120	Set	1,120	1	1120	Set	1,120	✓	
6	main bracket	1	1135	Set	1,135	1	1135	Set	1,135	✓	
7	head guss kit	1	1145	Set	1,145	1	1145	Set	1,145	✓	
8	join kit	1	1400	Set	1,400	1	1400	Set	1,400	✓	
9	main seal	1	2695	Set	2,695	1	2695	Set	2,695	✓	
10	timing seal	1	910	Set	910	1	910	Set	910	✓	
11	oil pump	1	3648	Set	3,648	1	3648	Set	3,648	✓	
12	inlet housing	1	1040	Set	1,040	1	1040	Set	1,040	✓	
13	clutch plate	1	5947	Set	5,947	1	5947	Set	5,947	✓	
14	PTO clutch plate	1	5254	Set	5,254	1	5254	Set	5,254	✓	
15	air cleaner complete	1	3120	Set	3,120	1	3120	Set	3,120	✓	
16	hose pipe complete	1	970	Set	970	1	970	Set	970	✓	
17	radiator pipe	2	1100	Nos	2,200	2	1100	Nos	2,200	✓	
18	gutka pipe	1	350	No	350	1	350	No	350	✓	
19	air cleaner pipe	1	970	No	970	1	970	No	970	✓	
20	seal	1	250	Set	250	1	250	Set	250	✓	
21	auto mizer pipe inlet	1	5100	Set	5,100	1	5100	Set	5,100	✓	
22	auto mizer pipe outlet	1	980	Set	980	1	980	Set	980	✓	
23	silicon big size	1	330	No	330	1	330	No	330	✓	
24	Magic	1	54	No	54	1	54	No	54	✓	
25	air cleaner clip	2	245	Nos	490	2	245	Nos	490	✓	

Quotation attached dully
 verified by Engineer Incharge

Handwritten signature
S.F.

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
26	oil cap	1	340 ✓	Job	340 ✓	1	340 ✓	Job	340 ✓	
27	jhula bush	1	2530 ✓	Set	2,530 ✓	1	2530 ✓	Set	2,530 ✓	
28	wheel seal	2	700 ✓	Set	1,400 ✓	2	700 ✓	Set	1,400 ✓	
29	Grees	1	700 ✓	Kg	700 ✓	1	700 ✓	Kg	700 ✓	
30	Inlet bolt	6	70 ✓	Nos	420 ✓	6	70 ✓	Nos	420 ✓	
31	Outlet Tee	3	156 ✓	Nos	468 ✓	3	156 ✓	Nos	468 ✓	
32	Tee	7	70 ✓	Nos	490 ✓	7	70 ✓	Nos	490 ✓	
33	Rubber pipe outlet	1	488 ✓	No	488 ✓	1	488 ✓	No	488 ✓	
34	Slow rise bolt	2	100 ✓	Nos	200 ✓	2	100 ✓	Nos	200 ✓	
35	fan belt	1	600 ✓	No	600 ✓	1	600 ✓	No	600 ✓	
36	cylinder clip	1	120 ✓	No	120 ✓	1	120 ✓	No	120 ✓	
37	main nut	3	300 ✓	Nos	900 ✓	3	300 ✓	Nos	900 ✓	
38	big end bolt	6	150 ✓	Nos	900 ✓	6	150 ✓	Nos	900 ✓	
39	head nut	3	350 ✓	Nos	1,050 ✓	3	350 ✓	Nos	1,050 ✓	
40	oil pump bolt	3	90 ✓	Nos	270 ✓	3	90 ✓	Nos	270 ✓	
41	automizer nut	6	40 ✓	Nos	240 ✓	6	40 ✓	Nos	240 ✓	
42	nut joint	7	80 ✓	Nos	560 ✓	7	80 ✓	Nos	560 ✓	
43	nut bolt self starter big	1	130 ✓	No	130 ✓	1	130 ✓	No	130 ✓	
44	wheel hub nut	6	150 ✓	Nos	900 ✓	6	150 ✓	Nos	900 ✓	
45	Engine oil	2	3300 ✓	Dabay	6,600 ✓	2	3300 ✓	Dabay	6,600 ✓	
46	oil filter	1	500 ✓	Set	500 ✓	1	500 ✓	Set	500 ✓	
47	diesel filter	1	700 ✓	Set	700 ✓	1	700 ✓	Set	700 ✓	
48	foot rest left side	1	870 ✓	Set	870 ✓	1	870 ✓	Set	870 ✓	
49	foot rest right side	1	3450 ✓	Set	3,450 ✓	1	3450 ✓	Set	3,450 ✓	
50	diesel tank valve	1	750 ✓	No	750 ✓	1	750 ✓	No	750 ✓	
51	fuel tank cap	1	450 ✓	No	450 ✓	1	450 ✓	No	450 ✓	
52	radiator cap	1	200 ✓	No	200 ✓	1	200 ✓	No	200 ✓	
53	Oil gear/hydraulic	20	300 ✓	Litre	6,000 ✓	20	300 ✓	Litre	6,000 ✓	
54	Air cleaner	1	400 ✓	Daba	400 ✓	1	400 ✓	Daba	400 ✓	
55	PTO seal	2	300 ✓	Nos	600 ✓	2	300 ✓	Nos	600 ✓	

Quotation attached dully
 verified by Engineer Incharge

Handwritten signature

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
56	link goda	1	2500 ✓	Set	2,500 ✓	1	2500 ✓	Set	2,500 ✓	
57	Junmper pin	2	90 ✓	Nos	180 ✓	2	90 ✓	Nos	180 ✓	
58	lock Pin	2	50 ✓	Nos	100 ✓	2	50 ✓	Nos	100 ✓	
59	jumper head	1	3300 ✓	Set	3,300 ✓	1	3300 ✓	Set	3,300 ✓	
60	jumper valve	1	1200 ✓	Set	1,200 ✓	1	1200 ✓	Set	1,200 ✓	
61	control valve	1	3500 ✓	Set	3,500 ✓	1	3500 ✓	Set	3,500 ✓	
62	rubber ring kit	1	230 ✓	Set	230 ✓	1	230 ✓	Set	230 ✓	
63	safety valve	1	750 ✓	Set	750 ✓	1	750 ✓	Set	750 ✓	
64	Labour charges head facing etc	1	1350 ✓	Job	1,350 ✓	1	1350 ✓	Job	1,350 ✓	
65	Engine general overhauling	1	21800 ✓	Job	21,800 ✓	1	21800 ✓	Job	21,800 ✓	
66	Jhula fixing	1	5500 ✓	Job	5,500 ✓	1	5500 ✓	Job	5,500 ✓	
67	Steering kit	1	3790 ✓	Job	3,790 ✓	1	3790 ✓	Job	3,790 ✓	
68	head lock complete	1	3950 ✓	Job	3,950 ✓	1	3950 ✓	Job	3,950 ✓	
69	pump automizer	1	4200 ✓	Job	4,200 ✓	1	4200 ✓	Job	4,200 ✓	
70	Repair of self starter	1	3844 ✓	Job	3,844 ✓	1	3844 ✓	Job	3,844 ✓	
71	Repair of generator	1	3476 ✓	Job	3,476 ✓	1	3476 ✓	Job	3,476 ✓	
72	bearing	1	8110 ✓	Job	8,110 ✓	1	8110 ✓	Job	8,110 ✓	
73	jhula spindle its welding & turning etc	1	7000 ✓	Set	7,000 ✓	1	7000 ✓	Set	7,000 ✓	
74	Cylinder boring and facing	1	3576 ✓	Job	3,576 ✓	1	3576 ✓	Job	3,576 ✓	
75	Crank grinding and polising	1	1580 ✓	Job	1,580 ✓	1	1580 ✓	Job	1,580 ✓	
76	Cylindr sleeve boring	1	2950 ✓	Job	2,950 ✓	1	2950 ✓	Job	2,950 ✓	
77	Head seat new	1	2500 ✓	Job	2,500 ✓	1	2500 ✓	Job	2,500 ✓	
78	valve guide	1	490 ✓	Job	490 ✓	1	490 ✓	Job	490 ✓	
79	Wall bush bore	1	1200 ✓	Job	1,200 ✓	1	1200 ✓	Job	1,200 ✓	
80	pistan top grinding	1	450 ✓	Job	450 ✓	1	450 ✓	Job	450 ✓	
81	ring set	1	8216 ✓	Set	8,216 ✓	1	8216 ✓	Set	8,216 ✓	

Quotation attached dully verified by Engineer Incharge

Handwritten signature

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
	Radiator new					1	19000 ✓		19000 ✓	
	Wiring complete					1	10000 ✓		10000 ✓	
	Hydraulics					1	12000 ✓		12000 ✓	
	Steering					1	12000 ✓		12000 ✓	
	Battery AGS					1	13000 ✓		13000 ✓	
	Deduct old material (Battery)					1	1500 ✓		1500 ✓	
	Total for 01 No. tractor				184,400				251,900 ✓	
	Total for 08 Nos. tractors				1,475,200				2,015,200 ✓	

Quotation attached dully verified by Engineer Incharge

Handwritten signature
S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
Tractor MF-385 (4x4 drive) 1 No.										
1	New sleeve D/d cost of old material	3	1500 ✓	Nos	4,500 ✓					
2	Piston set D/d cost of old material	3	2500 ✓	Nos	7,500 ✓					
3	Head valve guide	1	2000 ✓	No	2,000 ✓					
4	Join kit	1	1000 ✓	No	1,000 ✓					
5	head gues kit	1	1000 ✓	No	1,000 ✓					
6	Cam bush D/d cost of old material	1	2000 ✓	Job	2,000 ✓					
7	Rod bush D/d cost of old material	1	1200 ✓	Job	1,200 ✓					
8	Main and big piece D/d cost of old material	1	4500 ✓	Set	4,500 ✓					
9	Main seal	1	1100 ✓	Job	1,100 ✓					
10	Timing seal	1	350 ✓	No	350 ✓					
11	oil cleaner with house pipe D/d cost of old material	1	2900 ✓	No	2,900 ✓					
12	Ring set D/d cost of old material	1	4500 ✓	Job	4,500 ✓					
13	mobil oil with filter	1	5000 ✓	Job	5,000 ✓					
14	oil pump D/d cost of old material	1	5200 ✓	Job	5,200 ✓					
15	free grari bush timing D/d cost of old material	1	2000 ✓	Job	2,000 ✓					
16	timing set Grari D/d cost of old material	1	14500 ✓	Job	14,500 ✓					
17	Foundry Work	1	16000 ✓	Job	16,000 ✓					

Quotation attached duly verified by Engineer Incharge

[Signature]
S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
18	Radiator D/d cost of old material	1	9000 ✓	Job	9,000 ✓					
19	pressure plate complete D/d cost of old material	1	11000 ✓	Job	11,000 ✓					
20	fly wheel complete D/d cost of old material	1	9000 ✓	Job	9,000 ✓					
	REPAIR OF Gear box									
21	Gear set new D/d cost of old material	1	13500 ✓	Job	13,500 ✓	1	13500 ✓	Job	13,500 ✓	
22	join ket	1	1000 ✓	Job	1,000 ✓	1	1000 ✓	Job	1,000 ✓	
23	nut & bolts D/d cost of old material	1	2000 ✓	Job	2,000 ✓	1	2000 ✓	Job	2,000 ✓	
24	Pressure plate D/d cost of old material	1	10500 ✓	Job	10,500 ✓	1	10500 ✓	Job	10,500 ✓	
25	Gear top plate new D/d cost of old material	1	5500 ✓	Job	5,500 ✓	1	5500 ✓	Job	5,500 ✓	
26	C.L oil	4	600 ✓	Liter	2,400 ✓	4	600 ✓	Liter	2,400 ✓	
27	Hissa tube D/d cost of old material	1	13600 ✓	Job	13,600 ✓	1	13600 ✓	Job	13,600 ✓	
28	link with goday D/d cost of old material	1	17500 ✓	Job	17,500 ✓	1	17500 ✓	Job	17,500 ✓	
29	hydraulic assembly D/d cost of old material	1	13000 ✓	Job	13,000 ✓	1	13000 ✓	Job	13,000 ✓	
30	Reppair hydraulic pump D/d cost of old material	1	5500 ✓	Job	5,500 ✓	1	5500 ✓	Job	5,500 ✓	
	REPAIR OF JHOULA (4x4)									
31	Hub front wheel D/d cost of old material	1	5000 ✓	Job	5,000 ✓	1	5000 ✓	Job	5,000 ✓	

Quotation attached
verified by Engineer In-charge

San S.F.

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
32	Bearing D/d cost of old material	1	2800 ✓	Job	2,800 ✓	1	2800 ✓	Job	2,800 ✓	
33	Grees	3	200 ✓	Kg	600 ✓	3	200 ✓	Kg	600 ✓	
34	Tie rod D/d cost of old material	2	3100 ✓	Nos	6,200 ✓	2	3100 ✓	Nos	6,200 ✓	
35	Crown pinion D/d cost of old material	1	225400 ✓	Job	225,400 ✓	1	225400 ✓	Job	225,400 ✓	
36	power steering jack D/d cost of old material	1	15000 ✓	Job	15,000 ✓	1	15000 ✓	Job	15,000 ✓	
37	Labour charges of jhoula	1	3500 ✓	Job	3,500 ✓	1	3500 ✓	Job	3,500 ✓	
AGRICULTURE BUCKET										
38	agriculture bucket ^{new} with hydraulic jack	1	437500	Job	437,500	1	437500 ✓	Job	437,500	
REPAIR OF BACK HISSA										
39	Crown pin D/d cost of old material	1	18000 ✓	Job	18,000 ✓	1	18000 ✓	Job	18,000 ✓	
40	handi gari set complete D/d cost of old material	1	13000 ✓	Job	13,000 ✓	1	13000 ✓	Job	13,000 ✓	
41	shaft gari D/d cost of old material	1	15600 ✓	Job	15,600 ✓	1	15600 ✓	Job	15,600 ✓	
42	Gari Hissa. D/d cost of old material	2	13000 ✓	Nos	26,000 ✓	2	13000 ✓	Nos	26,000 ✓	
43	hissa bearing 63/13 D/d cost of old material	1	7600 ✓	Job	7,600 ✓	1	7600 ✓	Job	7,600 ✓	
44	Mobilal Oil back side	36	480 ✓	Liters	17,280 ✓	36	480 ✓	Liters	17,280 ✓	
45	Hitch	1	16000 ✓	Job	16,000 ✓	1	16000 ✓	Job	16,000 ✓	
Electric wiring										
46	head lights front lights, Back light, meters Electric Warring Complete	1	3000 ✓	Job	3,000 ✓	1	3000 ✓	Job	3,000 ✓	

Quotation attached duly verified by Engineer Incharge

Long S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
47	Battery 21 Plate	1	14500 ✓	No	14,500 ✓	1	14500 ✓	No	14,500 ✓	
48	Generator D/d cost of old material	1	2500 ✓	Job	2,500 ✓	1	2500 ✓	Job	2,500 ✓	
49	Self starter	1	3500 ✓	Job	3,500 ✓	1	3500 ✓	Job	3,500 ✓	
50	Completing wiring including all materials and wires Complete	1	5500 ✓	Job	5,500 ✓	1	5500 ✓	Job	5,500 ✓	
Total for 01 No. MF 385					1,027,230 ✓				922,980 ✓	
Total for Repair of tractors					2,502,430				2,938,180	

Quotation attached duly verified by Engineer Incharge

S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
2. Repair of trolleys including jacking system										
1	Repair of trolley size 7'x5'x2'	1	95500 ✓	Job	95500 ✓	1	95500 ✓	Job	95500 ✓	
	Excel connecting rod length 6Rft									
	Frame Thickness 8									
	T.R Width 3"									
	MS Sheet 10 Gauge									
	Jack Size 18"x4"									
	Pillar 2'									
	Bearing Size 17									
	Bearing Size 18									
Wooden Strip as per required Size										
2	Including Labour charges i/c welding, Cutting, threading, painting, writing, etc complete in all	1	15500 ✓	Job	15500 ✓	1	15500 ✓	Job	15500 ✓	
Total for 1 No. trolley					111000 ✓				111000 ✓	
Total for 04 Nos. trolleys					444000 ✓				444000	

Quotation attached dully verified by Engineer Incharge

Law
S.B

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
3. Repair of container carrier including & jacking system										
1	Repair of jack carrier etc complete in all respect	2	10,000	No's	20,000	2	10,000	No's	20,000	
2	P/F Supply pipe	4	1,660	No's	6,640	4	1,660	No's	6,640	
3	Repair of M.S pipe	1	2,490	No	2,490	1	2,490	No	2,490	
4	P/F front hook	1	7,470	No	7,470	1	7,470	No	7,470	
5	P/F bearing with Grees etc	4	2,000	No's	8,000	4	2,000	No's	8,000	
Total for 01 No.					44,600					
Total for 02 Nos.					89,200					

4. Repair of loader rickshaws

1	P/Fitting of ring piston	1	2,210	Job	2,210	1	2,210	Job	2,210	
2	P/Fitting of valve set	1	1,200	No	1,200	1	1,200	No	1,200	
3	P/Fitting of valve seal	1	350	No	350	1	350	No	350	
4	P/Fitting of join set	1	750	No	750	1	750	No	750	
5	Filling of Mobil oil	1	850	No	850	1	850	No	850	
6	P/Fitting of clutch plate	1	1,100	No	1,100	1	1,100	No	1,100	
7	P/Fitting of pressure plate	1	850	No	850	1	850	No	850	
8	P/Fitting of leather	4	500	No's	2,000	4	500	No's	2,000	
9	P/F of gear oil	1	580	Job	580	1	580	Job	580	
10	P/Fitting of clutch Katori.	1	1,300	Job	1,300	1	1,300	Job	1,300	
11	P/Fitting of clutch chamba	1	2,300	Job	2,300	1	2,300	Job	2,300	
12	Repair of Hissa	1	3,500	Job	3,500	1	3,500	Job	3,500	
13	Repair/Replacement of wiring	1	2,000	Job	2,000	1	2,000	Job	2,000	
14	Repair /Replacement of other related material	1	3,795	Job	3,795	1	3,795	Job	3,795	
15	Replacement of battery	1	2,760	No	2,760	1	2,760	No	2,760	
16	labour charges for welding turning & facing	1	1,500	Job	1,500	1	1,500	Job	1,500	

Quotation attached duly verified by Engineer Incharge

Am S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
					Original Estimate		Revised Estimate			
17	Labour charges	1	2,500	Job	2,500	1	2,500	Job	2,500	
Total for 01 No.									29,545	
Total for 22 Nos.									649,990	

Quotation attached dully verified by Engineer Incharge

5. Repair of water bowsers including peeter, tank, shower system, fire system

1	Capacity	1200 Gallons								
i.	Sheet	10								
ii	Filling Points	2 No's								
iii	Tank Fixing	Two point padding for tank fixing on frame								

S.F.

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
iv	Ladders	1 No. one at filling point								
v	Sprinkler	1 No, at rear								
vi	Shape	Oval /Semi - elliptica l or cylindri cal								
vii	Tyre Brand	8x25x2 0 (Ceat /Birla/ MRF/A pollo) 04 Nos								
	ACCESSORIES									
viii	Filling Device	Honda Water filling set 2"x2" with ball valves & necessa ry								

S.E.

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
ix	Water Monitor	Water gun for distant spray (70 ft) capable of rotating 360 degree horizontally & 90 vertically	545000 ✓	Job	545,000		545000 ✓	Job	545,000	
x	Delivery Hose	2 inch x 100 ft								
xi	Suction Hose	2 inch x 20 ft for suction from any external source like pound								

Quotation attached duly verified by Engineer Incharge

S.E.

xii	Road way Sprinkler	Suitable for sprinkling water on any side of the road							
xiii	Back lights & brake /Indicator	For safe transportation							
xiv	Paint	Inside & Outside							
Total for 01 No.					545000				545000
Total for 02 Nos.					1090000				1090000

Quotation attached at still M
 verified by Engineer Incharge

6. Repair of fire lori & fire fighting equipment

1	Overhauling of fire pump and PTO with new gear and coupling shaft	2 ✓	137,120 ✓	job	237,120 ✓	2	237,120 ✓	job	237,120 ✓
2	Locker boxes on back side center plate replace and repaint of complete boxes	1	91,806 ✓	Job	91,806 ✓	1	91,806 ✓	Job	91,806 ✓
3	Finishing of crew cabin and driver cabin complete with locks and glass of door	1	118,560 ✓	No	118,560 ✓	1	118,560 ✓	No	118,560 ✓
4	Maintenance of valves	1	96,720 ✓	Job	96,720 ✓	1	96,720 ✓	Job	96,720 ✓

S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
5	Electric work new flashing lights, crew cabin lights and fan panel lights search lights on back side switch of PTO	1	70,668	Job	70,668	1	70,668	Job	70,668	
6	New nozzles for hose reel	1	5,460	No	5,460	1	5,460	No	5,460	
7	Repainting reflective tape and letter of complete fire vehicle	1	33,540	Job	33,540	1	33,540	Job	33,540	
8	Ladder of back side will replace with new one	1	15,288	No	15,288	1	15,288	No	15,288	
9	New Techo meter with cable	1	15,444	No	15,444	1	15,444	No	15,444	
10	New water level and foam level gauges	1	13,416	Job	13,416	1	13,416	Job	13,416	
11	Water tank inside paint with minor leakage repair	1	159,120	Job	159,120	1	159,120	Job	159,120	
12	New chaker sheets both side of pump cabin 4x8 size	1	6,708	Job	67,080	1	6,708	Job	67,080	
13	New control panel with gauges on both side	2	47,040	Nos	94,080	2	47,040	Nos	94,080	
14	New main butterfly valve	1	35,100	No	35,100	1	35,100	No	35,100	
15	Accelerator throttle new with cable on both side	2	6,708	Nos	13,416	2	6,708	Nos	13,416	
16	New fire monitor with butterfly valve	1	63,336	No	63,336	1	63,336	No	63,336	
17	New fitting of hose reel gare	1	14,352	Job	14,352	1	14,352	Job	14,352	
18	Repairing of footrest back side	4	4,875	Job	19,500	4	4,875	Job	19,500	

Quotation attached duly verified by Engineer Incharge

S.E.

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
19	Repairing of back side shutter	1	12,700	Job	12,700	1	12,700	Job	12,700	
20	Clutch adjustment with rear engine	1	43,680	Job	43,680	1	43,680	Job	43,680	
21	Male ,female coupling of complete hose 2-1/2"	4	11,902	Set	47,608	4	11,902	Set	47,608	
22	New priming pump alongwith switch and oil tank	1	117,000	Set	117,000	1	117,000	Set	117,000	
23	new befell plate	2	24,960	Set	24,960	2	24,960	Set	24,960	
24	Ralling supports and pipes	1	48,360	Job	48,360	1	48,360	Job	48,360	
25	New water tank drain valve and PTO valve	1	17,472	No	17,472	1	17,472	No	17,472	
26	Complete new chaker sheet on tope side and back side	1	152,880	Job	152,880	1	152,880	Job	152,880	
27	New drain pipe for complete vehicle	1	34,320	Set	34,320	1	34,320	Set	34,320	
28	New back search lights	1	8,580	Set	8,580	1	8,580	Set	8,580	
29	Misc maintenance repairing	1	85,800	Job	85,800	1	85,800	Job	85,800	
Fire Fighting Equipment										
30	T-FBF002 Fire house 2.5x100 Nylon top rubber lined imported	5	43,255	Nos	216,275	5	43,255	Nos	216,275	
31	T-FBF002 Fire house 2.5x50 Nylon top rubber lined imported	5	26,834	Nos	134,175	5	26,834	Nos	134,175	

Quotation attached dully verified by Engineer Incharge

Larry
S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
32	M-EXT017 Portable fire Extinguisher dry chemical powder type 6 kg size DC-SP-6 FIRE EXTINGUISHER DRY POWER TYPE portable types standard version with chines BCE powder DC-SP-6 stored pressure model complete with controlled discharge operating lever pressure gauge and initial charge fire chief brand made by use to NFPA -10 (ready - for use) under BS EN ISO 9001:2000 quality control system certified by pakistan standard quality control authority	10 ✓	4,944 ✓	Nos	49,440 ✓	10 ✓	4,944 ✓	Nos	49,440 ✓	
33	T-FBF074 Long Nozzle ,2.5x39 intel male instantaneous Long Nozzle ,2.5x39 intel male instantaneous	2 ✓	23,256 ✓	Nos	46,512 ✓	2 ✓	23,256 ✓	Nos	46,512 ✓	

Quotation attached dully verified by Engineer Incharge

[Handwritten Signature]
S-E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
34	T-FB079 Nozzle selectable flow TP-3000 Gun metal Nozzle selectable flow with flow selection of 1135 ,2100 or 3000 LPM on the same nozzle with the help of selection lever mix throw 65-70m at 10 bar model TP 3000 gun metal chrome plated intel 2.5 male instantaneous	1	29,273	No	29,273	1	29,273	No	29,273	
35	M-FME010 FOAM NOZZLE AQUA FOAM water powered nozzle .with pick up tube for delivering foam FOAM NOZZLE AQUA FOAM water powered nozzle .with pick up tube for delivering foam: spray pattern: foam solid jet to fine fog output :1400 lit/min 300gpm (US gpm) throw at 7 bar 39m (130ft) 10 bar 45m (150ft) model AQF-1400	2	47,162	Nos	94,325	2	47,162	Nos	94,325	

Quotation attached dully verified by Engineer Incharge

Handwritten signature
S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate						Revised Estimate				
36	T-MTR001 Fire water and foam monitor ,Double barrel ,model DB-3000 Fire water and foam monitor ,Double barrel ,model DB-3000 with separet branches as water and foam with indivisual ball valve for each water flow :3000 LPM monitor constructed of carbon steel and water + foam nozzles of stainless steel complete with spol flanged 6x3 reducer	1	112,215	Nos	112,215	1	112,215	Nos	112,215	
37	T-EML001 Emergency light with exit sign ,with 90 minutes battery backup Emergency light with exit sign ,with 90 minutes battery backup	2	14,311	Nos	14,311	2	14,311	Nos	14,311	

Quotation attached dully
 verified by Engineer Incharge

S.E

38	T-FCO050 FIRST-AID BOX WITH MEDICINE ,FIG G-17 metal box FIRST-AID BOX WITH MEDICINE ,FIG G-17 metal box T-FCO050 FIRST-AID BOX WITH MEDICINE ,FIG G-17 metal box FIRST-AID BOX WITH MEDICINE ,FIG G-17 metal boxT-FCO050 FIRST-AID BOX WITH MEDICINE ,FIG G-17 metal box FIRST-AID BOX WITH MEDICINE ,FIG G-17 metal box	2 ✓	4,554 ✓	Nos	9,108 ✓	2 ✓	4,554 ✓	Nos	9,108 ✓
39	T-FCO050 FIRST-AID BOX WITH MEDICINE ,FIG G-17 metal box FIRST-AID BOX WITH MEDICINE ,FIG G-17 metal box	500 ✓	2,074 ✓	Liters	1,037,000 ✓	500 ✓	2,074 ✓	Liters ✓	1,037,000 ✓
Total for 01 No.					3,500,000				3,500,000

Quotation attached dully
verified by Engineer Incharge

S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
Sub Head No. 1 Repair of sullage pumping units, pen stock, screens, sluice valves & non-return valves.										
Pumping machinery (6 sets)										
1	Repair of pumping machinery 2.0 cuses (15 BHP)	2 ✓	60744 ✓	No.	121,488 ✓	2 ✓	60744 ✓	No.	121,488 ✓	
2	Repair of pumping machinery (25 BHP)	2 ✓	141600 ✓	No.	283,200 ✓	2	141600 ✓	No.	283,200 ✓	
3	Repair of pumping machinery (40 BHP)	2 ✓	126360 ✓	No.	252,720 ✓	2 ✓	126360 ✓	No.	252,720 ✓	
Total for pumping machinery					657408				657408	

Quotation attached dully
 verified by Engineer Incharge

S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks	
1	2	3	4	5	6	3	4	5	6		
		Original Estimate				Revised Estimate					
Screens (4 Nos)											
4	Providing, fabrication of M.S. Bar Screen of below given size comprising of heavy steel work with angle iron of size 3"x3"x3/8" fitted at the top and bottom & at 2 equidistant locations in the middle of screen duely welded with M.S. 3"x1/2" strips at 2" c/c with required length having intervening space of 1.5" as per drawings complete in all respect as approved by Project Manager. The existing rotted bar screen will become the property of the contractor.	3200 ✓	15726.05 ✓ MRS	kg	503,234 ✓	3200 ✓	15726.05 ✓ MRS	kg	503,234 ✓		
	Erection and fitting in position iron trusses, staging of	3200 ✓	732.2 ✓ MRS	kg	23,430 ✓	3200 ✓	732.2 ✓ MRS	kg	23,430 ✓		
Total for screens					526,664						526,664

Quotation attached dully verified by Engineer Incharge

S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
Sluice valves (4 Nos)										
5	Providing and fixing, sluice valve of B.S.S. quality and Labour rates include cost of jointing weight, for Asbestos cement pipe line, with comet joint material and labour. and rubber ring, complete (including cost of jointing materials):- 18" dia	1	120279 ✓ MRS	No.	120279 ✓	1	120279 ✓ MRS	No.	120279 ✓	
	12"	1 ✓	38493 ✓	No.	38493 ✓	1	38493 ✓	No.	38493 ✓	
	8"	2 ✓	23030 ✓	No.	46061 ✓	2	23030 ✓	No.	46061 ✓	
Total for sluice valves					204833					
Non return valves (8Nos)										
6	Providing and fixing non return valve 8"	8 ✓	63180 ✓	No.	505440 ✓	8 ✓	63180 ✓	No.	505440 ✓	
Total for non return valves					505440					

Quotation attached dully
 Verified by Engineer Incharge

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
Penstocks (4 Nos)										
7	Providing of cast iron rectangular penstock in the existing screening chamber. The penstock will comprise of CI head stock, CI framed shutter of size 4'x 4' with stiffeners, CI guide channel with non-corrosive and tough metal lining on the inside and square thread non magnetic stainless steel spindle of required size complete in all respect as per drawings. The rate includes the dismantling of concrete at the given location if required, dismantling the existing penstock and guide channels, installation of the new penstock and guide channels in place including bolting etc and relaying of the fresh concrete in its place. Shop drawings should be prepared by the	4 ✓	300000 ✓	No.	1200000 ✓	4 ✓	300000 ✓	No.	1200000 ✓	
	Total for penstocks				1200000 ✓				1200000 ✓	
	Total for 2.5				3094345				3094345	

Quotation attached dully verified by Engineer Incharge

Handwritten signature
S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate						Revised Estimate				

2. Repair of sucker machine including suction pipe, & overhauling of engines

1	Overhauling of engine Ring, valve, head gress kit sleep piston etc	1 ✓	90000 ✓	job	90000 ✓	1	90000 ✓	job	90000 ✓	
2	Repair of Back hissa star, bearing with Kara etc	1	53000 ✓	Job	53000 ✓	1	53000 ✓	Job	53000 ✓	
3	Repair of PTO pump, Blade, Bearing, PTO Jain, Editor, front excel and bush etc	1	53500 ✓	Job	53500 ✓	1	53500 ✓	Job	53500 ✓	
4	Electric work new flashing lights, crew cabin lights and fan panel lights search lights Etc	1	39500 ✓	Job	39500 ✓	1	39500 ✓	Job	39500 ✓	
5	Replacement of suction pipe etc	1	49000 ✓	Job	49000 ✓	1	49000 ✓	Job	49000 ✓	
6	Replacement of new Tyre with tube (MRE)	3 Pair 1 single	45000 ✓	Pair	315000 ✓	7	45000	No	315000 ✓	
7	Inner tank cervice repairing, paint, Polish & epoxy					1	62,500 ✓	Set	62,500 ✓	
8	coupling 4"					1	10,500 ✓	Set	10,500 ✓	
9	Disk and seal kit					1	25,000 ✓	Job	25,000 ✓	
10	Ball valve 1" and 2"					1	9,000 ✓	Job	9,000 ✓	
11	Filter replacement					1	32,000 ✓	Set	32,000 ✓	
12	Vaccum Pump Repairing					1	250,000 ✓	Job	250,000 ✓	
13	Pump Coupling / shaft etc					1	30,000 ✓	Job	30,000 ✓	
14	Labour Charges					1	40,000 ✓	Job	40,000 ✓	
15	Engine Battery					2 ✓	20,000 ✓	Job	40,000 ✓	

Quotation attached duly verified by Engineer Incharge

Handwritten signature

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
16	Deduct Old Material (Battery)					2 ✓	- 3,000	Job	- 6,000	✓
17	Clutch Plate <i>new</i>					1	25,000	Job	25,000	✓
18	Water Body <i>new</i>					1	8,000	Job	8,000	✓
19	Suction Pipe <u>3" 4 feet</u>					1	6,400	Job	6,400	✓
20	Clump					1	800	Job	800	✓
21	Radiator <i>new</i>					1	20,000	Job	20,000	✓
Total Rs					600000				838200	

1153200

Operation attached dully
verified by Engineer Incharge

Handwritten signature
S.E.

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate						Revised Estimate				

3. Repair of Jetter Machine

1	Overhauling of engine Ring, valve, head gress kit sleep piston etc	1	90000 ✓	job	90000 ✓	1	90000 ✓	job	90000 ✓	
2	Repair /replacement of clutch plate	1	20000 ✓	Job	20000 ✓	1	20000 ✓	Job	20000 ✓	
3	Repair /Replacement of fray wheel	1	15000 ✓	Job	15000 ✓	1	15000 ✓	Job	15000 ✓	
4	Repair /Replacement OF PTO jetting pump	1	26000 ✓	Job	26000 ✓	1	26000 ✓	Job	26000 ✓	
5	Repair /Replacement of bokhi (Petal)	1	27000 ✓	job	27000 ✓	1	27000 ✓	job	27000 ✓	
6	Single Spool control valve					1	26000 ✓	No.	26000 ✓	
7	Swivel valve					1	45000 ✓	No.	45000 ✓	
8	Jetting Pipe 3/4" 16ft 16ft 16.5 ft made in place					1	130000 ✓	No.	130000 ✓	
9	Three way valve					1	145000 ✓	No.	145000 ✓	
10	Over flow valve					1	140000 ✓	No.	140000 ✓	
11	Pipe					1	45000 ✓	No.	45000 ✓	
12	Labor charges					1	48000 ✓	job	48000 ✓	
13	Rubber pipe etc					1	16500 ✓	No.	16500 ✓	
14	Hydraulic oil					1	20000 ✓	No.	20000 ✓	
15	Hydraulic filter					1	4500 ✓	No.	4500 ✓	
16	Water filter					1	22000 ✓	No.	22000 ✓	

Quotation attached duly
verified by Engineer Incharge

Signature
S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
17	Jetting Nozzel					2 ✓	13000 ✓	No.	26000 ✓	
18	Engine Battery					1 ✓	20000 ✓	No.	20000 ✓	
19	Deduct Old Material (Battery)					1 ✓	-3000 ✓	No.	-3000 ✓	
20	Electric Wiring					1 ✓	35000 ✓	Job	35000 ✓	
Total Rs							178000		885000	

Quotation attached duly verified by Engineer Incharge

4. Repair of Dewatering Sets

1	Replacement of Sleeve	1	2000 ✓	Set	2000 ✓	1	2000 ✓	Set	2000 ✓	
2	Replacement of Piston set	1	1733 ✓	set	1733 ✓	1	1733 ✓	set	1733 ✓	
3	Replacement of Ring set	1	1567 ✓	Set	1567 ✓	1	1567 ✓	Set	1567 ✓	
4	Replacement of rubber ring	1	97 ✓	Set	97 ✓	1	97 ✓	Set	97 ✓	
5	Replacement of valve Guide	1	1437 ✓	Set	1437 ✓	1	1437 ✓	Set	1437 ✓	
6	Replacement of CR bush	1	259 ✓	Set	259 ✓	1	259 ✓	Set	259 ✓	
7	Replacement of Navzel	1	631 ✓	Set	631 ✓	1	631 ✓	Set	631 ✓	
8	Replacement of Plunger	1	405 ✓	Set	405 ✓	1	405 ✓	Set	405 ✓	
9	Replacement of D-valve	1	243 ✓	Set	243 ✓	1	243 ✓	Set	243 ✓	
10	Replacement of Tappet Ghor	1	583 ✓	Set	583 ✓	1	583 ✓	Set	583 ✓	
11	Replacement of Cheri Pin	1	259 ✓	Set	259 ✓	1	259 ✓	Set	259 ✓	
12	Replacement of Governor Complete	1	2115 ✓	Set	2115 ✓	1	2115 ✓	Set	2115 ✓	
13	Replacement of gudgon Pin	1	360 ✓	Job	360 ✓	1	360 ✓	Job	360 ✓	
14	Replacement of Oil Pump	1	2555 ✓	Set	2555 ✓	1	2555 ✓	Set	2555 ✓	
15	Replacement of Oil Filter	1	97 ✓	Set	97 ✓	1	97 ✓	Set	97 ✓	
16	Replacement of big end	1	178 ✓	Set	178 ✓	1	178 ✓	Set	178 ✓	

Signature

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
		Original Estimate				Revised Estimate				
17	Replacement of Wheel seal	1	113 ✓	Set	113 ✓	1	113 ✓	Set	113 ✓	
18	Replacement of Wheel Plate	1	3200 ✓	Set	3200 ✓	1	3200 ✓	Set	3200 ✓	
19	Replacement of Mobil oil	1	4500 ✓	Job	4500 ✓	1	4500 ✓	Job	4500 ✓	
20	Replacement of Cam guide	4	631 ✓	Liter	631 ✓	4	631 ✓	Liter	631 ✓	
21	Replacement of gas kit	1	100 ✓	Job	100 ✓	1	100 ✓	Job	100 ✓	
22	Replacement of join kit	1	200 ✓	Set	200 ✓	1	200 ✓	Set	200 ✓	
23	Replacement of Crank Cotter	1	50 ✓	Set	50 ✓	1	50 ✓	Set	50 ✓	
24	Replacement of Plate ring	1	50 ✓	Set	50 ✓	1	50 ✓	Set	50 ✓	
25	Replacement of Silicon	1	145 ✓	Job	145 ✓	1	145 ✓	Job	145 ✓	
26	Replacement of Coupling	1	145 ✓	Job	145 ✓	1	145 ✓	Job	145 ✓	
27	Replacement of pump shaft	1	5000 ✓	Job	5000 ✓	1	5000 ✓	Job	5000 ✓	
28	Replacement of Shaft bush	1	2600 ✓	Job	2600 ✓	1	2600 ✓	Job	2600 ✓	
30	Replacement of engine auto mizer	1	800 ✓	Job	800 ✓	1	800 ✓	Job	800 ✓	
31	Replacement of Crank Grinding	1	405 ✓	Job	405 ✓	1	405 ✓	Job	405 ✓	
32	Replacement of Head seat	1	486 ✓	Job	486 ✓	1	486 ✓	Job	486 ✓	
33	Replacement of Rod bush	1	250 ✓	Job	250 ✓	1	250 ✓	Job	250 ✓	
34	Replacement of Auto mizer bush	1	194 ✓	Job	194 ✓	1	194 ✓	Job	194 ✓	
35	Replacement of CR bush	1	60 ✓	Job	60 ✓	1	60 ✓	Job	60 ✓	
36	Frame Foundation Repair	1	5500 ✓	Job	5500 ✓	1	5500 ✓	Job	5500 ✓	
37	Repair/Replacement of other related material	1	8585 ✓	Job	8585 ✓	1	8585 ✓	Job	8585 ✓	

Quotation attached dully
verified by Engineer Incharge

Handwritten signature
S.E

REVISED BOQ GROUP-B COMPLETE

Sr No.	Description	Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	Remarks
1	2	3	4	5	6	3	4	5	6	
Original Estimate					Revised Estimate					
38	P/F Suction Pipe & Delivery Pipe	1	9267 ✓	Job	9267 ✓	1	9267 ✓	Job	9267 ✓	
39	Labor charges/Fitting Charges etc	1	1500 ✓	Job	1500 ✓	1	1500 ✓	Job	1500 ✓	
		Total			60,000 ✓				60,000 ✓	
13 Nos Deatering sets @Rs.60000/Each					780,000				780,000	

Quotation attached dully verified by Engineer Incharge

5. Repair of Generators 100 KVA

1	General Overhauling of engine Ring ,valve ,head guess kit sleep piston etc	1	205,000 ✓	job	205,000 ✓	1	205,000 ✓	job	205,000 ✓	
2	Repair /replacement of Auto Module System	1	33,000 ✓	Job	33,000 ✓	1	33,000 ✓	Job	33,000 ✓	
3	Repair /Replacement of Radiator	1	45,000 ✓	Job	45,000 ✓	1	45,000 ✓	Job	45,000 ✓	
4	Repair/Replacement of Dynmo three Phase 100 KVA .S	1	45,000 ✓	Job	45,300 ✓	1	45,000 ✓	Job	45,300 ✓	
Total Rs					328,300 ✓				328,300 ✓	
03 Nos Generator @Rs.328300/Each					984,900				984,900	

TERMS AND CONDITION

- 1 The contractor has to submit copy of memorandum / partnership deed attested by competent authority and power of attorney in original in favour of the authorized partener if any , to receive the payment on your behalf and carry out instructions of the Engineer In-charge
- 2 No claim for increase or decrease in scope of work shall be intertained.
- 3 No claim / payment of incresed in the rate of material or above in the market due to any reason will be claimed /entertained

[Handwritten Signature]
S.F.

- 4 The Municipal Committee Kot addu will not accept any responsibility for loss accrued due to interruption of work as result shortage or delay in supply of material / repair of machinery and or other impute required for completion of work.
- 5 you will have to complete the work within time limit otherwise the penalty shall be imposed as recommended by Engineer In-Charge this will how were not affect the other conditions of your tender agreement
- 6 No perimium on non Schedule items is allowed and decision of the competent authorthy in this respect will be final and binding upon you .
- 7 if any amnount remained out standing against this work will be recover from you
- 8 The rates approved are for this specific project only. There are not to be applied on other work anywhere
- 9 No daviation of quanties of item to be executed by the contractor shall be made without prior approval of the competent authority...
- 10 It will be exclusive responsibility of the contractor to complete the work according the specification
- 11 If any recovery pointed out by audit or other agency, the contractor will be bound to refund the recovery.
- 12 As you accept the above cost of bid according to quited rate, terms and condition , you should contract the concerned Sub-Engineer for getting the machinery for repair purpose/ supply items.
- 13 Payment will be made after clearness of the consultants as per policy in vogue.
- 14 The Contractor is layable to submit the detail statement showing the deployment of your supervisery staff.

Punjab Cities Program
Rehabilitation of Municipal Services
Infrastructure in Kot Addu City

Group-C
Supply Items

Municipal Committee Kot Addu

Supply Items Group - C		
Abstract of Cost		
Head No.	Description	Group-C Supply Items
1	Solid waste management	3,727,000
2	Sewerage system	5,508,000
3	Street lights	362,025
4	Office building equipment	500,000
5	Water supply system	-
6	Parks	-
Total Work outlay		10,097,025
Contingencies @ 2%		-
Punjab Sales Tax @ 5%		-
Punjab Sales Tax @ 16%		-
Horticulture @ 1%		100,970
Public awareness @ 0.25%		25,243
Grand Total		10,223,238

10223000/-

[Signature]
Sub Engineer,
Municipal Committee,
Kot Addu.

[Signature]
Municipal Officer (Infrastructure),
Municipal Committee
Kot Addu

- (i) Estimate Technically sanctioned for Rs. 10223000/- i.e. Rupees one crore Two lac and Twenty Three Thousand only.
- (ii) All legal formalities should be completed before making payment on competition basis/lowest market rates.
- (iii) The Engineer incharge will certify before making payment i.e. there is no overlapping of the work to avoid any wrong payment.
- (iv) The payment will be made as per actual w/done according to quality and quantity.
- (v) Picture of existing condition of works before execution.
- (vi) Detail drawing/ rate analysis and analysis specifications super structure of winching machines and Back Hoe should strictly be observed before making payment.
- (vii) Inform about the schedule of execution.

[Signature]
D.N.

[Signature]
Chief Engineer (H.Q.)
Punjab Local Govt. Board
L.G. & C. D. Deptt.
LAHORE.

Group-C (Supply Items)			
1 - Solid waste management			
Sr. No.	Subhead	Quantity	Cost
1	Supply of Rear tires with tube tractor size (13-28), for Tractor MF-240 (05 No's) Johndeer Tractor (02 No's) SNH Tractor (1)=08 No's <i>detail attached</i>	8	650,000
2	Supply of Front tires with tubes (16x600) for Tractor MF-240 (05 No's) Johndeer Tractor (02 No's) SNH Tractor (1)=08 No's <i>- do -</i>	8	129,600
3	Supply of Rear tires with tube for for Tractor MF-385 (4x4 drive) 1 No <i>- do -</i>	1	300,000
4	Supply of Front tires with tubes General Tractor MF-385 (4x4 drive) 1 No <i>- do -</i>	1	90,000
5	Tires for trollys with tube (General/ Foreign Made) For trolley, (7-50 -16, 16 Ply) (04 No.trolleys)	16	90,000
6	Supply of tires with tube(general) for container carrier (Size 8-25, 20 Ply) <i>- do -</i>	2	102,400
7	Supply of garbage containers 5.0cubic meters	10	2,365,000
Total (PKR)			3,727,000

Quotation attached dully verified by Engineer Incharge

This is a tentative cost estimate as the precise items of work can only be assessed when the machine is dismantled. The machinery will be got repaired from the manufacturers or their authorized dealers and the payments will be made as per actual work done.

Sub Head No.1 Supply of tires					
Item No.	Description	Unit	Qty	Rate (PKR)	Cost (PKR)
1	Supply of Rear tires with tube tractor size (13-28), for Tractor MF-240 (05 No's) Johndeer Tractor (02 No's) SNH Tractor (1)=08 No's	Pair	8	81,250	650,000
2	Supply of Front tires with tubes (16x600) for Tractor MF-240 (05 No's) Johndeer Tractor (02 No's) SNH Tractor (1)=08 No's	Pair	8	16,200	129,600
3	Supply of Rear tires with tube for for Tractor MF-385 (4x4 drive) 1 No	Pair	1	300,000	300,000
4	Supply of Front tires with tubes General Tractor MF-385 (4x4 drive) 1 No	Pair	1	90,000	90,000
5	Tires for trollys with tube (General/ Foreign Made) For trolley, (7-50 -16, 16 Ply) (04 No trolleys)	Nos	16	5,625.00	90,000.00
6	Supply of tires with tube(general) for container carrier (Size 8-25, 20 Ply)	No's	2	51,200	102,400
7	Supply of garbage containers 5.0cubic meters	No	10	236,500	2,365,000
Summary of supply items					3,727,000

The rates i/e all Govt taxes and contractor profit.

[Signature]

Supply Items Group - C

2 - Sewerage system

Sr. No.	Subhead	Quantity	Cost
1	Provision of winch machine for de-silting of collecting tanks	01 No	2,694,000 2,467,500/-
2	Provision of back hoe machine for sullage carrier cleaning	01 No	1,800,000 1,600,000/-
3	Provision of winch machine for sewer cleaning full set for both sides (two winches)	01 Set	1,014,000 935,000/-
	Total for sewerage system (PKR)		5,508,000 5,054,500/-

50,54,500/-

[Handwritten Signature]

Back up quantity No.2.1 for provision of winch machine for de-silting of collecting tank

Item No.	Description	No.	Back- up of quantities				
			Length (ft)	Width (ft)	D/H (standard)	Unit	Quantity
2.1	<p>Providing and commissioning of winch machine for desilting of collecting tank</p> <p>Specification:</p> <p>Working condition horizontal length up to 15 Ft</p> <p>Digging depth 35-40 Ft</p> <p>Lifting capacity 100-110 Kg</p> <p>Rotation 180 degrees both sides (total 360 degrees)</p> <p>Grab bucket size Grab bucket of size 18" fabricated with M.S plate of adequate thickness and reinforced with stiffeners. Bucket will be operated with two steel wire ropes of 12 mm</p> <p>Base turntable Heavy duty rotatable on rigid base with built in gear unit providing safe and smooth 360 degree continuous rotation in both directions. Complete slewing system shall be of Europe / Turkey origin. Hydraulic motor shall be of 250 CC / rev with inertial control valve and shall be directly mounted on motor port (hydraulic motor and inertial valve shall be of Europe / Turkey origin)</p> <p>Hydraulic oil tank 80 – 90 liters with breather capacity and oil level and temperature gauge</p> <p>Base frame The base frame will be fabricated with Mild Steel section of suitable size fitted with 2 axles and four wheels and should be capable to take a smooth turn when towed by any vehicle or a tractor. The frame will be fitted with hydraulic outriggers to support and stabilize the structure when working and raise all the 4 wheels from the ground</p> <p>Hydraulic outriggers 4 Nos hydraulic outriggers operated from the control lever panel to keep the structure balanced and stable during working and free the wheels from load</p> <p>Power source AC three phase induction type 4-pole squirrel cage 1450 RPM horizontal motor of required BHP (Siemens, PECO or imported) fitted on the base frame and provided with a steel cover to allow ventilation and air cooling but protect the motor from weather effects.</p> <p>Power transmission Power transmission system will be through reduction gear directly coupled with motor or driven through pulleys via V-belts or chain drives and PTO if required in the system.</p> <p>Lifting boom The lifting boom will be of single type 15-20 feet long capable to approach each and every point within 30 feet diameter collecting tank by shifting the machine around the collecting tank and capable to lift 100-110 KG of load excluding that of the bucket safely without sags and instability and will be fitted with the required size of pulley at the end for <u>lifting the bucket by steel wire rope of suitable inch diameter</u></p> <p>Wire rope The steel wire ropes to be used for lifting the bucket will be of adequate diameter and strands and will allow flexibility for efficient working.</p> <p>Tyres 4 No's tyres of suitable size with 2 axels fitted with frame of the winch machine to allow mobility of the machine.</p> <p>Mobility of machine The machine frame will have the necessary extended frames and hooks for towing the machine with any type of vehicle or tractor for mobility. The frame will be fabricated in such a way that it allows adequate stability of the machine during shifting. The frame will allow the front axle swing for smooth turning of the machine during shifting.</p>	1				No	1

Item No.	Description	No.	Back- up of quantities				
			Length (ft)	Width (ft)	D/H (standard)	Unit	Quantity
	Tool box A tool box of suitable size with lockable lid will be permanently welded on the machine frames.						
	Painting All components except motor will be painted in deep yellow enamel with proper primers etc.						
	Taxes The rate to be quoted will include all kind of taxes and levies.						
	Transportation The rate will include transportation of machine and accessories to the head office of the municipal						
	Testing The machine will got tested by the supplier at any collecting tank of municipal committee to the entire satisfaction of the engineer-in-charge and discrepancy of any sort or kind will be got removed by the supplier						
	Warranty The supplier will be responsible to repair or amend the machines in case of any problem arising during the defect liability period.						

[Handwritten signature]

Sub Head No 1 Provision of winch machine for de-silting of collecting tanks

Item No.	MRS	Description	Units	Qty	Rate (PKR)	Cost (PKR)
		Providing and commissioning of winch machine for desilting of collecting tank				
		Specification:				
		Working condition horiizontal length up to 15 Ft.				
		Digging depth 35-40 Ft				
		Lifting capacity 100-110 Kg				
		Rotation 180 degrees both sides (total 360 degrees)				
		Grab bucket size Grab bucket of size 18" fabricated with M.S plate of adequate thickness and reinforced with stiffeners. Bucket will be operated with two steel wire ropes of 12 mm dia.				
		Base turntable Heavy duty rotatable on rigid base with built in gear unit providing safe and smooth 360 degree continuous rotation in both directions. Complete slewing system shall be of Europe / Turkey origin. Hydraulic motor shall be of 250 CC / rev with inertial control valve and shall be directly mounted on motor port (hydraulic motor and inertial valve shall be of Europe / Turkey origin				
		Hydraulic oil tank 80 – 90 liters with breather capacity and oil level and temperature gauge				
		Base frame The base frame will be fabricated with Mild Steel section of suitable size fitted with 2 axles and four wheels and should be capable to take a smooth turn when towed by any vehicle or a tractor. The frame will be fitted with hydraulic outriggers to support and stabilize the structure when working and raise all the 4 wheels from the ground.				

2.9.1

NS

Hydraulic outriggers 4 Nos hydraulic outriggers operated from the control lever panel to keep the structure balanced and stable during working and free the wheels from load.

Power source AC three phase induction type 4-pole squirrel cage 1450 RPM horizontal motor of required BHP (Siemens, PECO or imported) fitted on the base frame and provided with a steel cover to allow ventilation and air cooling but protect the motor from weather effects.

Power transmission Power transmission system will be through reduction gear directly coupled with motor or driven through pulleys via V-belts or chain drives and PTO if required in the system.

Lifting boom The lifting boom will be of single type 15-20 feet long capable to approach each and every point within 30 feet diameter collecting tank by shifting the machine around the collecting tank and capable to lift 100-110 KG of load excluding that of the bucket safely without sags and instability and will be fitted with the required size of pulley at the end for lifting the bucket by steel wire rope of suitable inch diameter.

Wire rope The steel wire ropes to be used for lifting the bucket will be of adequate diameter and strands and will allow flexibility for efficient working.

Tires 4 No's tires of suitable size with 2 axels fitted with frame of the winch machine to allow mobility of the machine.

1

No

1

#####

2469500/
2,694,000

Mobility of machine The machine frame will have the necessary extended frames and hooks for towing the machine with any type of vehicle or tractor for mobility. The frame will be fabricated in such a way that it allows adequate stability of the machine during shifting. The frame will allow the front axle swing for smooth turning of the machine during shifting.

Tool box A tool box of suitable size with lockable lid will be permanently welded on the machine frames.

Painting All components except motor will be painted in deep yellow enamel with proper primers etc.

Taxes The rate to be quoted will include all kind of taxes and levies.

Transportation The rate will include transportation of machine and accessories to the head office of the municipal committee.

Testing The machine will got tested by the supplier at any collecting tank of municipal committee to the entire satisfaction of the engineer-in-charge and discrepancy of any sort or kind will be got removed by the supplier.

Warranty The supplier will be responsible to repair or amend the machines in case of any problem arising during the defect liability period.

Total

246950/-
-2,694,000

Item No.2.1 Analysis of rate for winch machine for de-silting of collecting tanks
(Group-C)

Sr.No	Description	Unit	Quantity	Rate (PKR)	Cost (PKR)
1	Provision of winch machines for de-silting of collecting tanks of disposal station	No	1	2,245,000	2,245,000
Add 10% Contractor profit and 10% overhead charges					224,500 449,000
Total					2,469,500 2,694,000

The rates /e all Govt axes and contractor profit

Back up quantity No.2.2 Provision of back-hoe machine for de-silting of sullage carriers

Item No.	Description	No.	Back- up of quantities				
			Length (ft)	Width (ft)	D/H (standard)	Unit	Quantity
2.2	i) Bucket capacity 0.85m ³ to 0.14m ³ (ii) digging radius from 3.5 meter to 4.5 meter (iii)digging depth from 2 meter to 3.5 meter (iv) Swing radius 180 (v) Independent hydraulic Pump (vi) Independent hydraulic oil reserve tank (vii) 6 Spool Control valve (viii) Hydraulic Jack with imported honed tube and chrome shafts (ix) Reinforced bucket (x) Painting and writing (xi) Complete in all respect	1				No	1

2.2- Provision of back-hoe machine for de-silting of sullage carriers (Group-C)

Item No.	MRS-2nd 2019 Ref	Description	Unit	Qty	Rate	Amount
2.2	NA		No	1	1,800,000 1650000/-	1650000/-
					Total	1650000/- 1,800,000

The rates include all cost taxes and contractor profit

Bill No.2.2 Rate analysis of back-hoe machine for de-silting of sullage carriers
(Group-C)

Item No.	Description	Unit	Qty	Rate	Cost
2.2		No	1	1,500,000	1,500,000
				Total	1,500,000
(10+10) 20% CONTRACTOR PROFIT AND OVER HEAD CHARGES					650000
					300000
Total Rs.					1,800,000

Quotation attached dully verified by Engineer Incharge

The rates 1/2 all Govt taxes and contractor profit. 1650000/2

[Signature]

2.3 Back up quantity for provision of winch machine for de-silting & cleaning of sewer lines

Item No.	Description	No.	Back- up of quantities				
			Length (ft)	Width (ft)	D/H (standard)	Unit	Qty
2.3	Providing and commissioning of winch machine for desilting of sewer lines	1				No	1
	Specification:						
	One set comprising of 2 machines (local Made) for installation on consecutive manholes						
	Base frame of mild steel fabricated with box section of at least 6"x4"x5mm size covered with 4 mm MS sheet. The base frame will be equipped with four MS folding stands fabricated with box sections of suitable size fitted on all four corners of the base frame to raise the tires above ground level during work.						
	Vertical frame Manhole facing vertical frame of mild steel fabricated with box section of at least 6"x4"x5mm size with 54 to 56 inches height above the base frame and welded at the bottom with the base frame through splays. The frame should be equipped with 10" dia V-pulley near to its top to house the rope.						
	Power source for each machine Medium speed diesel engine 16 HP fueled by high speed diesel mounted on a mild steel base of channel sections of at least 4"x4"x5mm size welded on the machine base frame.						
	Drum Mild steel reel or drum of suitable diameter with collars for winding the MS wire rope on it. The drum will be equipped with braking system operated through a hand lever.						
	Power transmission The drum or reel will be driven by the diesel engine through a variable speed reduction gear having gear change lever and set of pulleys driven through V-belts or chains. The transmission system will allow disengagement of the engine shaft with reel/drum by a hand lever or by any						
	Rope A steel wire rope of 1/2" diameter, 6 strands to be attached to the spool/drum (winded on the drum) on one side and to be attached with desilting bucket on the other side with U-clamps. The length of the rope will be 300 feet for each machine with total length of 600 feet.						
	Manhole pulley and supping rod A 15" mild steel V-pulley will be permanently attached with 20 ft. long medium quality GI pipe of 2" dia at its lower end through suitable and robust frames for lowering to the manhole bed. The pulley will be grooved and collared in such a way that it will allow the movement of wire rope and desilting bucket around it. The pipe will be capable to be attached with the machine base frame through a bracket system and detachable during shifting of the machines.						
M.S piped buckets with open able bottom, one small 6" dia one middle 8" dia and one large 12" dia with handles welded on both side for attaching the steel wire rope with buckets.							
Engine cooling arrangements will comprise of steel/plastic drum and necessary rubber piping & valves fitted with drum and engine. The drum will be fitted on the body of each machine with suitable base to keep it above the frame top for which necessary housing clamps or bases frame should be provided.							

Item No.	Description	No.	Back-up of quantities				
			Length (ft)	Width (ft)	D/H (standard)	Unit	Qty
	Tyres 2 No's tyres of suitable size with axle fitted with frame of winch machines to allow mobility of the machines.						
	Mobility of machine The machine frames will have the necessary extended frames and hooks for towing the machines with any type of vehicle or tractor for mobility. The frame will be fabricated in such a way that it allows adequate stability of the machine during shifting.						
	A tool box of suitable size with lockable lid will be permanently welded on the machine frames.						
	Painting All components except the engine will be painted in grey enamel with proper primers etc.						
	Taxes The rate to be quoted will include all kind of taxes and levies.						
	Transportation The rate will include transportation of complete set of machines and accessories to the head office of the municipal committee.						
	Testing The set of machines will got tested by the supplier at any sewer line of municipal committee to the entire satisfaction of the engineer-in-charge and discrepancy of any sort or kind will be got removed by the supplier.						
	Warranty The supplier will be responsible to repair or amend the machines in case of any problem arising during the defect liability period.						

Handwritten signature

**2.3 Provision of winch machine for de-silting & cleaning of sewer lines
(Group-C)**

Item No.	MRS 2nd 2019 Ref	Description	Units	Qty	Rate (PKR)	Cost (PKR)
		<p>Providing and commissioning of winch machine for desilting of sewer lines</p> <p>Specification:</p> <p>One set comprising of 2 machines (local Made) for installation on consecutive manholes.</p> <p>Base frame of mild steel fabricated with box section of at least 6"x4"x5mm size covered with 4 mm MS sheet. The base frame will be equipped with four MS folding stands fabricated with box sections of suitable size fitted on all four corners of the base frame to raise the tires above ground level during work.</p> <p>Vertical frame Manhole facing vertical frame of mild steel fabricated with box section of at least 6"x4"x5mm size with 54 to 56 inches height above the base frame and welded at the bottom with the base frame through splays. The frame should be equipped with 10" dia V-pulley near to its top to house the rope.</p> <p>Power source for each machine Medium speed diesel engine 16 HP fueled by high speed diesel mounted on a mild steel base of channel sections of at least 4"x4"x5mm size welded on the machine base frame.</p> <p>Drum Mild steel reel or drum of suitable diameter with collars for winding the MS wire rope on it. The drum will be equipped with braking system operated through a hand lever.</p>				

Power transmission The drum or reel will be driven by the diesel engine through a variable speed reduction gear having gear change lever and set of pulleys driven through V-belts or chains. The transmission system will allow disengagement of the engine shaft with reel/drum by a hand lever or by any mechanism.

Rope A steel wire rope of 1/2" diameter, 6 strands to be attached to the spool/drum (winded on the drum) on one side and to be attached with desilting bucket on the other side with U-clamps. The length of the rope will be 300 feet for each machine with total length of 600 feet.

Manhole pulley and supping rod A 15" mild steel V-pulley will be permanently attached with 20 ft. long medium quality GI pipe of 2" dia at its lower end through suitable and robust frames for lowering to the manhole bed. The pulley will be grooved and collared in such a way that it will allow the movement of wire rope and desilting bucket around it. The pipe will be capable to be attached with the machine base frame through a bracket system and detachable during shifting of the machines.

M.S piped buckets with open able bottom, one small 6" dia one middle 8" dia and one large 12" dia with handles welded on both side for attaching the steel wire rope with buckets.

1 NS

1 No 1

~~936000~~
1,014,000

~~935000~~
1,014,000

Engine cooling arrangements will comprise of steel/plastic drum and necessary rubber piping & valves fitted with drum and engine. The drum will be fitted on the body of each machine with suitable base to keep it above the frame top for which necessary housing clamps or bases frame should be provided.

Tires 2 No's tires of suitable size with axle fitted with frame of winch machines to allow mobility of the machines.

Mobility of machine The machine frames will have the necessary extended frames and hooks for towing the machines with any type of vehicle or tractor for mobility. The frame will be fabricated in such a way that it allows adequate stability of the machine during shifting.

A tool box of suitable size with lockable lid will be permanently welded on the machine frames.

Painting All components except the engine will be painted in grey enamel with proper primers etc.

Taxes The rate to be quoted will include all kind of taxes and levies.

Transportation The rate will include transportation of complete set of machines and accessories to the head office of the municipal committee.

	<p>Testing The set of machines will got tested by the supplier at any sewer line of municipal committee to the entire satisfaction of the engineer-in-charge and discrepancy of any sort or kind will be got removed by the supplier.</p>				
	<p>Warranty The supplier will be responsible to repair or amend the machines in case of any problem arising during the defect liability period.</p>				<p>93.5000/-</p>
	<p>Total</p>				<p>1,014,000</p>

[Handwritten signature]

Item No.2.3 Analysis of Rate for Winch Machine for De-silting and cleaning of sewer lines (Group-C)

Sr.No.	Description	Unit	Quantity	Rate, Rupees	Amount, Rupees
1	Provision of winch machines for de-silting and cleaning of sewer lines	No	1	850,000	850,000/- 845,000
Add 10% Contractor profit and 10% overhead charges					85,000/- 169,000
Total					935,000/- 1,014,000

The rates include all Govt taxes and contractor profit



Supply Items Group-C

3. Street lights

Item No.	Description	Cost
1	Supply of cable 7/0.064 single core <i>detail attached</i>	450,450 ✓
2	Supply of cable 7/0.044 single core <i>do.</i>	73,950 ✓
3	Supply of cable 7/0.029 twin core <i>do.</i>	271,600 ✓
4	Supply of cable 3/0.029 twin core <i>do.</i>	19,500 ✓
Total (PKR)		815,500

Handwritten signature

Street Light (Supply Work)

Item No.	MRS- 2nd 2019	Description	Unit	Qty	Rate (PKR)	Cost (PKR)
1	23/11. vi	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade Cable <u>7/0.064 single core</u> <i>99.99 / Copper</i>	Rft	6500 ✓	69.30 ✓ <i>MRS</i>	450,450 ✓
2	23/11. v	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable <u>7/0.44</u> <i>99.99 / Copper</i>	Rft	2900 ✓	26 ✓	73,950 ✓
3	23/13	Supply and erection of copper conductor cables for service connection, <u>twin core 7/0.29</u> <i>99.99 / Copper</i>	Rft	9700 ✓	28 ✓	271,600 ✓
4	23/13	Supply and erection of copper conductor cables for service connection, <u>twin core 3/0.29</u> <i>99.99 / Copper</i>	Rft	1500 ✓	13 ✓	19,500 ✓
Total						815,500

MRS
23/11/19

Back up quantity for Supplying , cables, Group-C

Item No.	Description	Unit	Qty
1	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade Cable 7/0.064 single core	Rft	1500
2	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable 7/0.44	Rft	900
3	Supply and erection of copper conductor cables for service connection, twin core 7/0.29	Rft	5700
4	Supply and erection of copper conductor cables for service connection, twin core 3/0.29	Rft	1500



Supply items Group-C

4- Office building equipment

Item No.	Description	Unit	Qty	Rate (PKR)	Cost
1	Supply of AC windows with inverter AC 1.5 ton (Gree) with all accessories	Nos	5	100000	500000
				Total (PKR)	500,000

The rates include all Govt taxes and contractor's profit.

