



OFFICE OF THE
DEPUTY DIRECTOR (DEV)
MUZAFFARGARH

To

The Chief Officer,
Munciple Committee,
Kot Addu

No. 145 /DD(DEV)/MZG

Dated: 20-04- 2023

Subject: ADMINISTRATIVE APPROVAL OF DEVELOPMENT SCHEME UNDER PCP YEAR 2022-23 (LG&CD SECTOR)

In exercise of the powers delegated under the Financial Rules 1990, amended by Government of the Punjab, Finance Department vide notification No.FD (FR)-11-2/98 dated 03.12.1998 read with letter No.FD(FR)11-5/82 dated 11.08.2001 and subsequent amendments dated 12.01.2002 & 20.10.2006; administrative approval in respect of the following scheme as approved and recommended by the District Development Committee Muzaffargarh in its meeting held on **20.04.2023** is hereby accorded at the cost mentioned hereunder for execution:-

(Rs: in million)

Sr. No.	Name of Schemes	AA Cost
1	Construction of Parking Shed in Kot Adu City	49.222
	Total	49.222

Administrative Approval of the scheme is further subject to:-

- i. No change in scope of work be made without approval of the competent forum.
- ii. PPRA rules shall be followed in letter and spirit.
- iii. Executing agency shall be responsible for observance of all codal, procedural, legal, financial, budgetary and audit requirements.
- iv. The executing agency shall make snaps/pictures before & after the execution of works.


Deputy Commissioner/
Chairman District Development Committee
Muzaffargarh

NO. & DATE EVEN

Copy is forwarded for information and necessary action to the:-

1. The Secretary to Chief Minister Punjab (Implementation), Chief Minister's Office, Lahore.
2. The Secretary, Government of the Punjab, P&D Board, Lahore.
3. The Secretary, Government of the Punjab, LG&CD, Lahore.
4. The Secretary, Government of the Punjab, Finance Department, Lahore.
5. The Administrator, Municipality Committee Kot Addu.
6. All the participants of the meeting.
7. PA to Commissioner, Dera Ghazi Khan Division, Dera Ghazi Khan.
8. Master File.

Deputy Director (Dev)/
Secretary District Development Committee
Muaffargarh

MINUTES OF THE MEETING OF DISTRICT DEVELOPMENT COMMITTEE (DDC), MUZAFFARGARH FOR CFY 2022-23, HELD ON 20.04.2023 AT 12:00 NOON UNDER THE CHAIRMANSHIP OF DEPUTY COMMISSIONER, MUZAFFARGARH

The list of the participants is attached.

2. The meeting commenced with recitation from the few verses of Holy Quran. The Chair welcomed all the participants and allowed the Deputy Director (Development)/ Secretary, District Development Committee (DDC), Muzaffargarh to start the proceedings of the meeting. The Deputy Director (Development), Muzaffargarh briefed about the agenda of the meeting as under: -

AGENDA ITEM NO.1

ADMINISTRATIVE APPROVAL OF DEVELOPMENT SCHEME UNDER PCP (PUNJAB CITIES PROGRAM) YEAR 2022-23, MUNICIPLE COMMITTEE KOT ADDU

DISCUSSION:

3. The Deputy Director (Development), Muzaffargarh apprised the house that 01 No. Rough Cost Estimate of development scheme of Municiple Committee Kot Addu under PCP year 2022-23 has been received for consideration / issuance of Administrative Approval. The detail of the scheme is given as under: -

(Rs. in million)

Sr. No.	Name of Schemes	Amount of AA
1	Construction of Parking Shed in Kot Adu City	49.222
	Total	49.222

4. The Municiple Officer (I&S) Kot Addu, apprised the house about the scope of work of scheme as per above given scope of work. The PC-I and detailed estimate of the scheme, vetted by the consultant, are examined and disussed at length.

DECISION:

5. After detailed discussion and keeping in view the policy/directions of the Government, the above mentioned 01 No. of scheme has been approved by the DDC, subject to fulfillment of following all codal, procedural, legal, financial, and budgetary and audit requirement by executing agency.

- No change in scope of work be made without approval from competent forum.
- PPRA rules shall be followed in letter and spirit.
- Executing agency shall be responsible for observance of all codal, procedural, legal, financial, budgetary and audit requirements.
- The executing agency shall make snaps/pictures before & after the execution of works.

- iv. The executing agency shall make snaps/pictures before & after the execution of works.
6. The meeting ended with a vote of thanks to and from the Chair


DEPUTY COMMISSIONER
MUZAFFARGARH

Endst. No. 144

Dated: 20/4/2023

Copy is forwarded for information and necessary action to: -

1. The Secretary to Chief Minister Punjab (Implementation), Chief Minister's Office, Lahore.
2. The Secretary, Government of the Punjab, P&D Board, Lahore.
3. The Secretary, Government of the Punjab, LG&CD, Lahore.
4. The Secretary, Government of the Punjab, Finance Department, Lahore.
5. The Administrator, Munciple Committee Kot Addu.
6. All the participants of the meeting.
7. PA to Commissioner, Dera Ghazi Khan Division, Dera Ghazi Khan.
8. Master File.


DEPUTY DIRECTOR (DEVELOPMENT)
MUZAFFARHARH



بلدیہ مستحکم - پنجاب مستحکم

OFFICE OF THE
CHIEF ENGINEER (SOUTH)
PUNJAB LOCAL GOVT. BOARD (H.Q) MULTAN
E-mail chiefengineersouthpunjab@gmail.com

To,

MUNICIPAL OFFICER (I&S)
Municipal Committee, Kot Addu.

No. CE (South) PLGB/TS (207)/2023
Dated 12 May 2023.

Subject:

TECHNICAL SANCTION OF THE SCHEME NAMEDLY "CONSTRUCTION OF PARKING SHED IN KOT ADDU CITY" UNDER PUNJAB CITIES PROGRAM (PCP) AMOUNTING TO RS 49.222 MILLION.

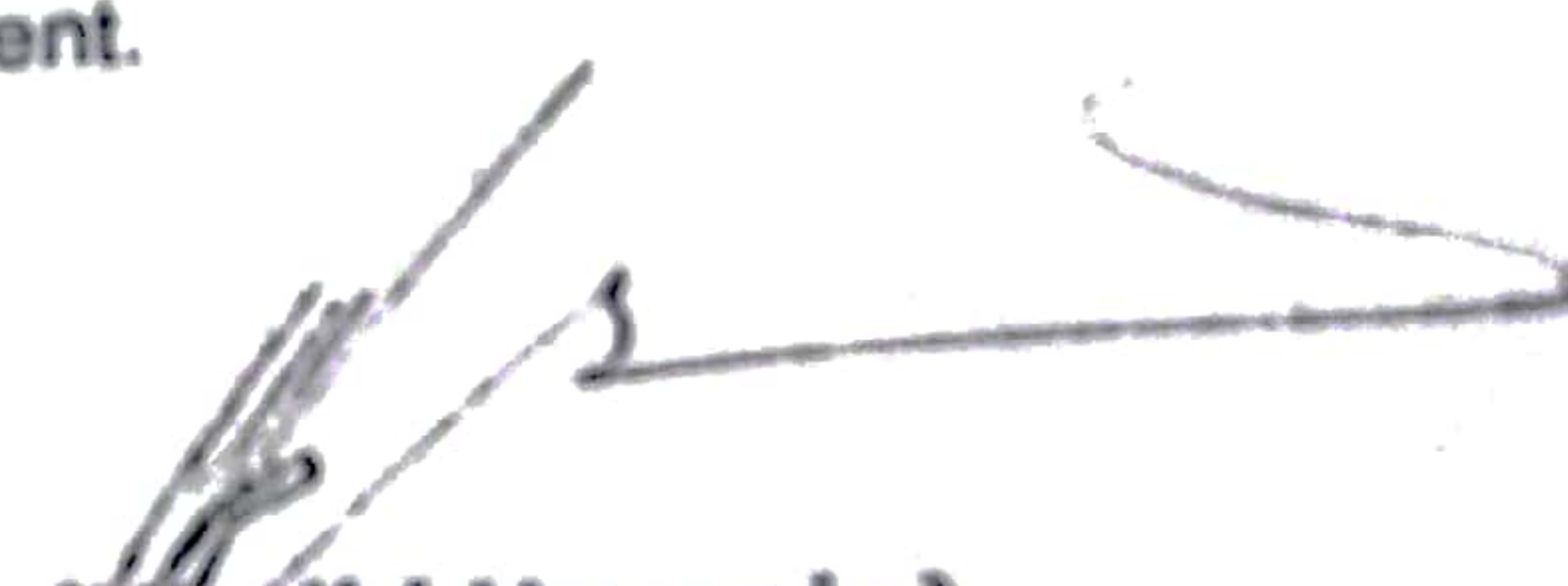
Reference your letter No MC/KA-166 Dated 06-05-2023 on the subject noted above.

The Administrative Approval accorded by the District Development Committee, Muzaffargarh vide No.145/DD(DEV)/MZG dated 20.04.2023 to the tune of Rs 49.222 Million. 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 will 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 earthwork will be worked out after conducting leveling before executing of earthwork. Provide X-section and longitudinal sections of the earthwork in order to avoid possibility of any wrong payment besides preparation of lead chart of EW showing borrowing areas specifying exact Khasra and Khatoni numbers.

4. Feasibility, drawings and L&X Sections are based on site parameters contained in the estimate.
5. The responsibility for feasibility, correctness and authenticity of all designs, drawings, plans, technology used, calculations, quality and quantity, successful, implementation, avoiding any irregularities, lies on the Consultants & executing agency
6. The rate for non-standardised items (if any) 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.
7. The credit for existing or old dismantled materials should be afforded to the project in accordance with the codal rules and financial procedure properly.
8. The Engineer In charge will certify before making payment that there is no over lapping of 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. He will also responsible for observance of all legal/codal/formal procedural formalities before payment.
9. Picture of existing condition of works before execution and after execution be made part of record of the work being technically sanctioned.
10. Any hazard at the place of work, during the execution of work, does not cause any threat to loss of life.
11. The work does not cause any loss to the property of any other person.
12. The terms of contract /agreement are strictly enforced.
13. Quality control tests of the materials, if required, shall be carried out and reports should be annexed with the file.
14. 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 fruitful completion of scheme.
15. Executing Agency will ensure that development funds may not be used for development of private owned societies.
16. 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.
17. Bearing Capacity test should be conducted for Parking Shed Area before start of work.
18. Wheel stopper for vehicle washing ramp should be ensure for safety of vehicles.
19. Drainage system of parking shed should be connected with existing drainage/sewerage system.

20. Ensure the Sand filling under Generator foundation/pad, required to absorb the shocks/vibrations.
21. Provide the marble slabs for stairs steps as per requirement instead of porcelain tiles.
22. For septic tank, the vehicle washing waste (grease, mobiloil, mud etc) should be consider for proper drainage and dispose, to avoid future complication for cleaning of septic tank/Sewerage System.
23. Executing agency will ensure Warranty/Guarantee of Aluzinc Corrugated sheet to be used for parking shed should be 15-year minimum from the contractor.
24. The conditions of Administrative Approval should strictly be followed.
25. The schedule of execution shall be informed accordingly.
26. Snaps before & after execution of work shall be made part of the project file.
27. For the execution of parking shed, after its completion final inspection will be made by the undersigned before payment.


(Khalid Hussain)
CHIEF ENGINEER (SOUTH),
PUNJAB LOCAL GOVT. BOARD,
HEADQUARTER (MULTAN)

12/5/2023



Punjab Municipal Development Fund Company

Consultancy Services for Detailed Design of Infrastructure sub-projects (Parking Sheds, Parks, Roads, Chowks, etc.) and Resident Supervision in 16 Cities of Punjab

Construction of SWM Parking Area MC Kot Addu

Detailed Cost Estimate

May 2023



JERS CONSULTANCY (PVT) LTD (Formerly Jera Engineering Consultants)

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Tel: +92 42 35113123, +92 42 35113124
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Web: http://www.jers.com.pk



PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
SWM PARKING AREA (KOT ADDU)
SUMMARY

Sr. No.	Description	Amount (Rs)
1	ADMIN BLOCK	
i	Civil Work	3,882,520
ii	Plumbing Work	309,051
iii	Electrical Work	185,896
2	WORK SHOP	
i	Civil Work	3,420,139
ii	Plumbing Work	54,340
iii	Electrical Work	122,664
3	PARKING SHED (SIZE 120' x 32')	
i	Civil Work	13,382,408
ii	Electrical Work	61,085
4	PARKING SHED (SIZE 36' x 16') (2Nos.)	4,017,400
i	Civil Work	4,008,990
ii	Electrical Work	165,933
5	WASHING PIT	1,853,656
6	EXTERNAL WORK (BOUNDARY WALL + TUFF PVER + LAWN)	9,456,291
7	EJECTOR PUMP	266,725
8	EXTERNAL WATER SUPPLY	728,014
9	EXTERNAL SEWERAGE SYSTEM	659,525
10	SEPTIC TANK	166,618
11	DRAINAGE SYSTEM	822,625
12	SILT HOLDING TANK	221,339
13	EXTERNAL ELECTRICAL WORK	3422797 3,366,863
14	DISMANTLING WORK	23705 331,140
15	ENVIRONMENTAL HEALTH & SAFETY COST	112,425
	Total Rs.	43,578,246

Sub Engineer
Kot Addu



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

43222731

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

SWM PARKING AREA (KOT ADDU)

SUMMARY

Sr. No.	Description	Amount (Rs)
	Contingencies @ 2%	864455 - u 871,565
	PRA Charges @ 5%	2,16,1137 - 2,178,912
	Total Amount. Rs.	4 62 483 2 5 - v 46,628,723
		49.222 (m)



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

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Chief Officer
Municipal Committee
Kot Addu

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Sub Engineer
M.C Kot Addu

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INSTRUCTION:

The engineer incharge and subordinate staff shall be responsible for:-

1. Excavation of work in accordance with specification contained in the estimate,
2. Allotment of funds and order for its commencement issued by competent authority
3. The terms of contract are strictly enforced.
4. All codal formalities should be ensured before commencement of work.
5. Provision of Section 4(5) & 5(2) of the Punjab Local Government (Work) 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 test of the materials, if required shall be carried out and reports annexed with the 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 Engineer for faithful completion of schemes.
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 payment will be made as per actual work done according to quality and quantity.

All Tax Deductions As per Govt policy will be the responsibility of Municipal Committee Kot Addu.

Estimate Technically Sanctioned for Rs= 49-222 (M)

Rupees Forty nine Lakh Two Hundred
Twenty Two Million only

De. Kot Addu

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(Khalid Hussain)
CHIEF ENGINEER (SOUTH),
PUNJAB GOVT. BOARD,
HEADQUARTER (MULTAN)
12/5/2023

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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) By Manual				
		ii) in ordinary soil.	1000Cft	2.25	11,658.25	26,231
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	3,087.00	9.90	30,561
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	4.94	26,670.70	131,753
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	20.14	29,898.60	602,158
		Horizontal D.P.C				
5	6/36	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) 1½" thick (40 mm)	100 Sft	3.35	8,883.20	29,759
		Vertical D.P.C				
6	6/37	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾" thick (20 mm)	100 Sft	4.46	6,680.50	29,795

Sub Engineer
M.C. Kot. Adu



Deputy Municipal Officer (I & II)
Municipal Committee Kot Adu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind Bi-Annual- 2023 (Jan to june) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:- i) Cement, sand mortar:- Ratio 1:5	100 Cft	20.61	32,301.00	665,724
		Concrete Work				
8	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		Above foundation				
		(a) (i) 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 in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	513.20	555.75	285,213
		Steel Work.				
9	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	14.67	31,969.80	468,997
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	7.65	2,862.00	21,894
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.	100 Cft	2.52	9,768.00	24,615
		Plain Cement Concrete				
12	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):-				
		Ratio 1:2:4	100 Cft	2.08	35,925.10	74,724

Sub Engineer
M.C. Ke. Adu



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Muzaffargarh

Chief Officer
Municipal Committee
Ke. Adu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Porcelain Tile				
13	10/42/c	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		c) (Non-Skid Chequered Tiles) 300mmx300mm	Per Sft	497.00	225.60	112,123
14	10/43/a	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		a) Full body Glazed Tile				
		(i) 400 mm x 400 mm	Per Sft	46.86	310.00	14,527
		Ceramic Tile				
15	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	254.00	255.45	64,884
16	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	637.50	310.00	197,625

[Signature]
Sub Engineer
M.C. K. A. S.



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[Signature]
Chief Officer
Municipal Committee

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF FUNJAB**

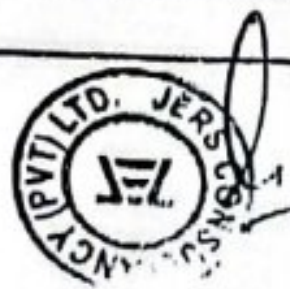
DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Marble				
17	10/47	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.				
		i) China Verona	Sft	38.50	496.90	19,131
		Slab Plaster				
18	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	7.65	3,960.25	30,296
		Cement Plaster				
19	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	31.56	4,644.25	146,573
		Pointing				
20	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	14.40	3,774.25	54,349
21	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	14.40	822.00	11,837
		Distempering				
22	11/23	Distempering:- iii) three coats	100 Sft	39.21	1,446.35	56,711
		Wooden Door				
23	12/52	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	Per Sft	158.50	795.70	126,118

[Signature]
Sub Engineer
M.C Kot Addu



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[Signature]
Deputy Municipal Officer (I & S)
Municipal Committee Kot Addu

[Signature]
Chief Officer
Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind Bi-Annual- 2023 (Jan to june) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
24	25/51	Providing and fixing all types of partly fixed and partly openable glazed anodised/ powder coated aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge	Sft	68.00	1,549.35	105,356
		Formica Sheet				
25	Rate Analysis	Providing and fixing Formica sheet on bathroom door as per drawing and design complete in all respect.	Sft	50.00	75.11	3,756
26	12/17	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge				
		(ii) 10.50 " wide	Sft	74.81	659.70	49,354
27	12/28	Providing and fixing 3"x4-1/2" chowkat for doors, windows and C. windows, including holdfast, etc.				
		b) Deodar wood	Sft	22.92	835.35	19,143
28	12/53	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	Rft	20.00	79.75	1,595
29	12/58	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect.				
		b) Deodar wood architrave	Sft	21.38	99.35	2,124

Sub Engineer
M.C. M. Adu



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Chief Officer
Municipal Committee

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Lock				
30	12/22	Providing and fixing, approved quality mortice lock.	Each	9.00	774.00	6,966
		Paint				
31	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	3.17	1,460.05	4,628
		ii) Two coat	100 Sft	3.17	841.65	2,668
		Aluminium Window				
32	25/52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge	Per Sft	126.50	1,336.55	169,074
		Roof Insulation				
33	9/5	Single layer of tiles 9"x4 1/2"x1 1/2" (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.m bitumen coating sand blinded.	100 Sft	8.55	11,598.80	99,170
34	9/45	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water absorption (1% by volume, closed cell type structure) i/c cutting and placing in position. complete in all respect.				
		c) 2" thick	100 Sft	8.55	12,039.60	102,939
35	26/37/i	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.				
		i) 500 gauge (.005" thick)	Per Sft	1,710.00	8.65	14,792

Sub Engineer
M.C Kot Adu



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

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Khurras				
36	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00	865.60	1,731
		Bottom Khuras				
37	9/16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	2.00	1,893.15	3,786
38	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 111 Km)	Cft	1,102.82	63.33	69,842
Total Rs.						3,882,520



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Chief Officer
Municipal Committee
Kot Addu

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Sub Engineer
M.C Kot Adu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Excavation							
1	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)						
	ii) in ordinary soil.						
	Office wall 9" Thick Wall	1	182.50	3.00	3.00	1,642.50	Cft
	Center wall 4-1/2" Thick Wall	1	81.00	2.50	3.00	607.50	Cft
					Total	2,250.00	Cft
					Total	2.25	%Cft
Anti-Termite							
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Office wall 9" Thick Wall	1	182.50	9.00		1,642.50	Sft
	Center wall 4-1/2" Thick Wall	1	81.00	8.50		688.50	Sft
	Floor	1	36.00	21.00		756.00	Sft
					Total	3,087.00	Sft
Plain Cement Concrete							
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Office wall 9" Thick Wall	1	182.50	3.00	0.50	273.75	Cft
	Center wall 4-1/2" Thick Wall	1	81.00	2.50	0.50	101.25	Cft
	Plinth Protection	1	95.00	5.00	0.25	118.75	Cft
					Total	493.75	Cft
					Total	4.94	%Cft

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Sub Engineer
M.C. Kot Addu



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PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

ADMIN BLOCK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	i) Cement, sand mortar:- Ratio 1:5						
	Office wall 9" Thick Wall	1	182.50	0.75	11.00	1,505.63	Cft
	Center wall 4-1/2" Thick Wall	1	81.00	0.75	11.00	668.25	Cft
	Parapet Wall	1	120.00	0.38	2.50	112.50	Cft
	Entrance step	2	10.00	1.00	0.75	15.00	Cft
	D/d Doors and Window						
	D-1	-2	3.50	0.75	7.00	(36.75)	Cft
	D-2	-2	3.00	0.75	7.00	(31.50)	Cft
	D-3	-1	2.50	0.75	7.00	(13.13)	Cft
	D-4	-4	2.50	0.75	5.00	(37.50)	Cft
	DW-1	-1	5.00	0.75	7.00	(26.25)	Cft
	W-1	-3	6.00	0.75	4.00	(54.00)	Cft
	W-2	-1	5.00	0.75	4.00	(15.00)	Cft
	W-3	-1	3.00	0.75	3.50	(7.88)	Cft
	V-1	-6	2.00	0.75	2.00	(18.00)	Cft
						Total	2,061.38 Cft
						Total	20.61 %Cft
	Concrete Work						
8	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	Above foundation						
	(a) (i) 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 in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	37.38	23.00	0.50	429.81	Cft
	Kitchen slab	1	4.50	3.00	0.50	6.75	Cft
	B-1	1	18.00	0.75	1.25	16.88	Cft
	CB-1	1	26.00	0.75	0.75	14.63	Cft
	Doors and window Lintels						
	D-1	2	4.50	0.38	0.75	2.53	Cft
	D-2	2	4.00	0.75	0.75	4.50	Cft
	D-3	12	3.50	0.38	0.75	0.98	Cft

Sub Engineer
M.C Kot Adu



Chief Officer
Municipal Committee
Kot Adu

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

**ADMIN BLOCK
 CALCULATION OF QUANTITIES
 CIVIL WORK**

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	D-4	4	3.50	0.38	0.75	3.94	Cft
	DW-1	1	10.00	0.75	0.75	5.63	Cft
	W-1	3	7.00	0.75	0.75	11.81	Cft
	W-2	1	6.00	0.75	0.75	3.38	Cft
	W-3	1	4.00	0.75	0.75	2.25	Cft
	V-1	6	3.00	0.75	0.75	10.13	Cft
						Total	513.20 Cft
	Steel Work.						
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):-						
	Deformed bars (Grade-60)					513.20	Cft
	Top Slab & lintel @ 6 lbs / Cft		6.00		=	3,079.22	lbs/cft
					Total =	3,079.22	lbs/cft
					Total =	1,397.10	Kg.
					Add 5% Wastage. =	69.86	Kg.
					Total =	1,467	Kg
						Total	14.67 %kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	765.00	1.00	1.00	765.00	Cft
						Total	765.00 Cft
						Total	7.65 %Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.						
	Floor	1	765.00	1.00	0.33	252.45	Cft
						Total	252.45 Cft
						Total	2.52 %Cft
	P.C.C						
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						



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PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB
ADMIN BLOCK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Ratio 1: 2: 4						
	Floor	1	765.00	1.00	0.17	127.50	Cft
	Plinth Protection	1	95.00	5.00	0.17	80.75	Cft
						Total	2.08 %Cft
	Porcelain Tile						
13	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	c) (Non-Skid Chequered Tiles) 300mmx300mm	1	497.00	1.00		497.00	Sft
						Total	497.00 Sft
14	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	a) Full body Glazed Tile						
	(i) 400 mm x 400 mm	1	142.00	1.00	0.33	46.86	Sft
						Total	46.86 Sft
	Ceramic Tile						
15	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1	254.00	1.00		254.00	Sft
						Total	254.00 Sft

Sub Engineer
Kot Addu



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**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
16	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1	141.00		5.00	705.00	Sft
	D/d						
	D-3	-1	2.50		7.00	(17.50)	Sft
	D-4	-4	2.50		5.00	(50.00)	Sft
					Total	637.50	Sft
	Marble						
17	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.						
	i) China Verona						
	W-1	3	6.00	0.75		13.50	Sft
	W-2	1	5.00	0.75		3.75	Sft
	W-3	1	3.00	0.75		2.25	Sft
	V-1	6	2.00	0.75		9.00	Sft
	Kitchen	1	5.00	2.00		10.00	Sft
					Total	38.50	Sft
	Slab Plaster						
18	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	765.00	1.00		765.00	Sft
					Total	7.65	%Sft
	Cement Plaster						
19	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Office Room Walls	1	152.00		11.00	1,672.00	Sft
	Toilet Walls						
	Bath	15	22.00			242.00	Sft



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PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
ADMIN BLOCK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
		1	142.00		11.00	1,562.00	Sft
	D/d Doors and Window						
	D-1	-2	3.50		7.00	(49.00)	Sft
	D-2	-2	3.00		7.00	(42.00)	Sft
	D-3	-1	2.50		7.00	(17.50)	Sft
	D-4	-4	2.50		5.00	(50.00)	Sft
	DW-1	-1	5.00		7.00	(35.00)	Sft
	W-1	-3	6.00		4.00	(72.00)	Sft
	W-2	-1	5.00		4.00	(20.00)	Sft
	W-3	-1	3.00		3.50	(10.50)	Sft
	V-1	-6	2.00		2.00	(24.00)	Sft
						Total	3,156.00 Sft
						Total	31.56 %Sft
	Pointing						
20	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:-						
	a) ratio 1:2						
	Outer Walls	1	120.00		12.00	1,440.00	Sft
						Total	14.40 %Sft
21	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.					Total	14.40 %Sft
	Distempering						
22	Distempering:-						
	iii) three coats						
	Office Room						
		1	152.00		11.00	1,672.00	Sft
	Toilet Walls	1	22.00		11.00	242.00	Sft
		1	142.00		11.00	1,562.00	Sft
	Slab	1	765.00	1.00		765.00	Sft
	D/d Doors and Window						
	D-1	-2	3.50		7.00	(49.00)	Sft
	D-2	-2	3.00		7.00	(42.00)	Sft
	D-3	-1	2.50		7.00	(17.50)	Sft
	D-4	-4	2.50		5.00	(50.00)	Sft
	DW-1	-1	5.00		7.00	(35.00)	Sft
	W-1	-3	6.00		4.00	(72.00)	Sft
	W-2	-1	5.00		4.00	(20.00)	Sft
	W-3	-1	3.00		3.50	(10.50)	Sft

Sub Engineer
M.C Kot Addu



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

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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**ADMIN BLOCK
CALCULATION OF QUANTITIES
CIVIL WORK**

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	V-1	-6	2.00		2.00	(24.00)	Sft
					Total	3,921.00	Sft
					Total	39.21	%Sft
	Wooden Door						
23	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.						
	D-1	2	3.50		7.00	49.00	Sft
	D-2	2	3.00		7.00	42.00	Sft
	D-3	1	2.50		7.00	17.50	Sft
	D-4	4	2.50		5.00	50.00	Sft
					Total	158.50	Sft
24	Providing and fixing all types of partly fixed and partly openable glazed anodised/ powder coated aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge						
	DW-1	1	8.00		8.50	68.00	Sft



Sub Engineer
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Deputy Municipal Officer (I & S)
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PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB
ADMIN BLOCK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Formica Sheet						
25	Providing and fixing Formica sheet on bathroom door as per drawing and design complete in all respect.						
	D-4	4	2.50		5.00	50.00	Sft
26	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge						
	(ii) 10.50 " wide						
	D-1	2	17.50	0.875		30.63	Sft
	D-2	2	17.00	0.875		29.75	Sft
	D-3	1	16.50	0.875		14.44	Sft
					Total	74.81	Sft
27	Providing and fixing 3"x4-1/2" chowkat for doors, windows and C. windows, including holdfast, etc.						
	b) Deodar wood						
	D-4	4	12.50	0.46		22.92	Sft
					Total	22.92	Sft
28	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	8	2.50			20.00	Rft
29	Providing and fixing ornamental wooden architrave 3" x (1 1/2" tapered to 1/4") all along the door frame complete in all respect.						
	b) Deodar wood architrave						
	D-1	2	17.50	0.25		8.75	Sft
	D-2	2	17.00	0.25		8.50	Sft
	D-3	1	16.50	0.25		4.13	Sft
					Total	21.38	Sft

Sub Engineer
M.C Kot Adu



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

Chief Officer
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**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

**ADMIN BLOCK
 CALCULATION OF QUANTITIES
 CIVIL WORK**

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Lock						
30	Providing and fixing, approved quality mortice lock.	9				9.00	Each
	Paint						
31	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii) Two coat						
					Total	3.17	Sft
	Aluminium Window						
32	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge						
	W-1	3	6.00		4.00	72.00	Sft
	W-2	1	5.00		4.00	20.00	Sft
	W-3	1	3.00		3.50	10.50	Sft
	V-1	6	2.00		2.00	24.00	Sft
					Total	126.50	Sft
	Roof Insulation						
33	Single layer of tiles 9"x4 1/2"x1 1/2" (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.m bitumen coating sand blinded.						
	Roof area	1	37.38	22.88		854.95	Sft
					Total	854.95	Sft
					Total	8.55	%Sft
34	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)						
					Total	1,710.00	Sft

Sub Engineer
Kot Addu



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

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Kot Addu

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB
ADMIN BLOCK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Khurras						
35	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	2				2.00	Each
	Bottom Khurras						
36	Bottom Khurras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	2				2.00	Each



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 Deputy Municipal Officer (I/c) Municipal Committee Kot Addu

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 Chief Officer, Municipal Committee Kot Addu

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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

ADMIN BLOCK

PLUMBING WORKS

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Indian W.C				
1	19-4-i	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.				
		i) white	Each	2.00	2,461.80	4,924
2	19-3	Providing and fitting one piece European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/rubber connection, thimble, normal seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	Each	2.00	35,817.00	71,634
3	19-13-i	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.				
		i) white	Each	2.00	3,061.40	6,123
4	19-7-i	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.				
		i) white, with pedestal	Each	5.00	6,160.50	30,803
5	19-8	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	Each	2.00	7,747.40	15,495
6	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	7.00	2,477.00	17,339
8	19-16	Providing and fixing, chromium plated soap dish.	Each	5.00	538.60	2,693
10	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	5.00	800.30	4,002
11	19-27	Providing and fixing chromium plated bib cock:-				
		i) 2 cm (3/4")	Each	4.00	1,081.60	4,326
12	19-28	Providing and fixing chromium plated tee stop cock 15mm (1/2").	Each	14.00	1,081.60	15,142
13	19-34-i	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-				
		i) 10x10 (4x2")	Each	7.00	660.30	4,622

Sub Engineer
M.C Kot Addu



Deputy Municipal Officer
Municipal Committee Kot Addu

Chief Officer
Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

ADMIN BLOCK

PLUMBING WORKS

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
14	19-36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	2.00	1,168.45	2,337
15	19-35-ii	Providing and fitting "P" trap:- ii) 10 cm (4") glazed.	Each	9.00	320.70	2,886
16	23-47	PPRC Pipe Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/ Popular /Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(i) (1/2") 20 mm	Rft	50.00	48.75	2,438
		(ii) (3/4") 25 mm	Rft	70.00	67.15	4,701
		(iii) (1") 32 mm	Rft	20.00	107.65	2,155
		(iv) (1-1/4") 40 mm	Rft	25.00	162.05	4,051
17	23-23	G.I Pipe on Roof 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.				
		iii) Heavy Quality				
		b) 3/4" i/d (20 mm) 3.25mm thick	Rft	30.00	279.15	8,375
18	23/46	Valve Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		ii) 3/4" dia	Each	1.00	1,545.60	1,546
		iii) 1" dia	Each	1.00	1,809.00	1,809

Sub Engineer
M.C. Kot Addu



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SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

ADMIN BLOCK

PLUMBING WORKS

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		uPVC Pipe				
19	19-47	Providing, fixing, testing and commissioning of u-PVC (Unplasticized polyvinyl Chloride) Nikasi /waste pipe make of dadex/Popular/Beta/BBJ plain/ socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge				
		Type (SDR 41/SN-4)				
		(iii) 2"(60 mm)	Rft	20.00	89.25	1,785
		(v) 4"(110 mm)	Rft	80.00	218.00	17,440
		(vi) 6"(160 mm)	Rft	10.00	422.55	4,226
		HDPE Tank				
20	19/51	Providing and hoisting vertical /horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double ply polyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.	P.Gln	500	117.30	58,650
		Total Rs. (A)				290,454
		Non-Schedule Item				
21	N.S	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	1.00	18,596.98	18,597
		Total Rs. (B)				18,597
		Total Amount Rs. (A + B)				309,051

ah/ai
Deputy Municipal Officer (I & S)
Municipal Committee Kot Addu



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Chief Officer
Municipal Committee
Kot Addu

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PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
ADMIN BUILDING
ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Muzafargarh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
Scheduled Items (A)						
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	400.00	86.35	34,540
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	350.00	101.60	35,560
3	C-24/10a.i	Supply and erection 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). (3.029)	Rft.	750.00	27.85	20,888
4	C-24/10a.ii	Supply and erection 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). (7.029)	Rft.	120.00	23.70	2,844
	C-24/10a.iii	Supply and erection 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). (7.036)	Rft.	450.00	44.05	19,823
5	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	9.00	295.90	2,663
6	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	2.00	409.85	820

Sub Engineer
M.C. Muzafgarh



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**PUNJAB CITIES PROGRAM (PCP)
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DETAILED COST ESTIMATE

ADMIN BUILDING

ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Muzzafargarh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
7	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	11.00	96.95	1,066
8	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	14.00	167.75	2,349
9	C-24/43-	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete				
	C-24/43-ii	Single rod (40 watts) with one choke and one starter.	Each	19	1,444.20	27,440
10	C-24/102/a	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas /G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
		(a) Plastic body (ii) 12 " dia	Each	5.00	3,380.85	16,904
		Sub Total (A)				164,896
12	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	3.00	7,000.00	21,000
		Sub Total (B)				21,000
		Sub Total (A+B)				185,896



Signature
Deputy Municipal Officer (P&S)
Municipal Committee Kot Addu

Signature
Chief Officer
Municipal Committee
Kot Addu

Signature
Sub Engineer
M.C Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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) By Manual				
		ii) in ordinary soil.	1000Cft	0.49	11,658.25	5,713
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	606.75	9.90	6,007
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.81	26,670.70	21,603
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	4.32	29,898.60	129,162
		Horizontal D.P.C				
5	6/36	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) 1½" thick (40 mm)	100 Sft	0.77	8,883.20	6,840
		Vertical D.P.C				
6	6/37	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				

Sub Engineer
M.C Kot Addu



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**PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		ii) Ratio 1:3 ¾" thick (20 mm)	100 Sft	1.03	6,680.50	6,881
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	4.71	32,301.00	152,138
		Concrete Work				
8	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		Above foundation				
		(a) (i) 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 in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	80.58	555/75 556.50	44,842
		Steel Work.				
9	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	2.30	31,969.80	73,531
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	1.10	2,862.00	3,148
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.	100 Cft	0.36	9,768.00	3,516

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

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Chief Officer
Municipal Committee
Kot Addu

Sub Engineer
M.C Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

**WORK SHOP
CIVIL WORK**

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Plain Cement Concrete				
12	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		Ratio 1: 2: 4	100 Cft	0.18	35,925.10	6,467
		Porcelain Tile				
13	10/42/c	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		c) (Non-Skid Chequered Tiles) 300mmx300mm	Per Sft	110.44	225.60	24,915
14	10/43/a	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		a) Full body Glazed Tile				
		(i) 400 mm x 400 mm	Per Sft	14.52	310.00	4,501
		Ceramic Tile				
15	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	17.00	255.45	4,343



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Municipal Committee
Kot Addu

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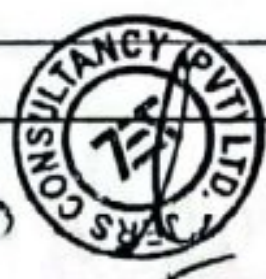
**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
16	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	70.00	310.00	21,700
		Slab Plaster				
17	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	1.10	3,960.25	4,356
		Cement Plaster				
18	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	6.45	4,644.25	29,955
		Pointing				
19	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	5.64	3,774.25	21,287
20	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	5.64	822.00	4,636
		Distempering				
21	11/23	Distempering:- iii) three coats	100 Sft	12.72	1,446.35	18,398
		Wooden Door				
22	12/52	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	Per Sft	42.00	795.70	33,419



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Sub Engineer

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SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Formica Sheet				
23	Rate Analysis	Providing and fixing Formica sheet on bathroom door as per drawing and design complete in all respect.	Sft	17.50	75.11	1,314
24	12/17	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge				
		(ii) 10.50 " wide	Sft	15.31	659.70	10,102
25	12/28	Providing and fixing 3"x4-1/2" chowkat for doors, windows and C. windows, including holdfast, etc.				
		b) Deodar wood	Sft	7.56	835.35	6,317
26	12/53	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	Rft	5.00	79.75	399
27	12/58	Providing and fixing ornamental wooden architrave 3" x (1 1/2" tapered to 1/4") all along the door frame complete in all respect.				
		b) Deodar wood architrave	Sft	4.38	99.35	435
28	12/22	Lock Providing and fixing, approved quality mortice lock.	Each	2.00	774.00	1,548
29	13/5/c	Paint Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	0.84	1,460.05	1,226
		ii) Two coat	100 Sft	0.84	841.65	707

Sub Engineer
M.C Kot Addu



30 Deputy Municipal Officer (L&S)
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PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE

WORK SHOP
CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Aluminium Window				
30	25/52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge	Per Sft	20.00	1,336.55	26,731
		Roof Insulation				
31	9/5	Single layer of tiles 9"x4 1/2"x1 1/2" (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.m bitumen coating sand blinded.	100 Sft	1.46	11,598.80	16,934
32	9/45	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water absorption (1% by volume, closed cell type structure) i/c cutting and placing in position. complete in all respect.				
		c) 2" thick	100 Sft	1.46	12,039.60	17,578
33	26/37/ii	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.				
		ii) 500 gauge (.005" thick)	Per Sft	292.00	8.65	2,526
34	9/15	Khurras Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00	865.60	1,731
35	9/16	Bottom Khurras Bottom Khurras of brick masonry in cement mortar 1:6, 4'x2'x4 1/2" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	2.00	1,893.15	3,786

Sub Engineer
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DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	1st Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Shed				
		Excavation				
36	3/21/a/ii	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) By Manual				
		ii) in ordinary soil.	1000Cft	1.86	11,658.25	21,684
		Anti-Termite				
37	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	818.00	9.90	8,098
		Plain Cement Concrete				
38	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	1.16	26,670.70	30,938
		Concrete Work				
39	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		In Foundation				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(2) Type C (nominal mix 1: 2: 4)	P.Cft	522.98	446.40	233,456

Sub Engineer
M.C Kot Addu



Deputy Municipal Officer
Municipal Committee Kot Addu

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Municipal Committee

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
40	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	29.90	31,969.80	955,897
		Brick work in Foundation				
41	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	4.80	29,898.60	143,513
		Cement Plaster				
42	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	2.03	4,644.25	9,428
		Sand Filling				
43	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	4.80	2,862.00	13,738
		Sub Base Course				
44	18/3/a/ (ii) + 1/1	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)	100Cft	1.58	15,794.85	24,956



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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Water Bound Macadam				
45	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)	100Cft	1.58	18,382.51	29,044
		Tuff Paver				
46	10/41	Providing and laying Tuff pavers, having 7000 PSI, 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% Grey / 50% Coloured)				
		c) 80-mm thick	Per Sft	480.00	197.15	94,632
47	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 111 Km)	Cft	733.66	63.33	46,463



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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Parking Shed				
48	N.S	Providing, laying and fixing in position Pre-Engineered shed as per drawings and manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick (50-60 gm/sqm) fixed with rivet and bolts over GI Purlins 200x6 (OSF) 200 to 500 (Web)X4 200X6 (ISF) as shown in drawing No. ST-14 with approved Colour/ paint fitted with J-Type bolt having length 500 mm as shown in drawing. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought from Engineer Incharge prior to placement of order.	Sft	480.00	2,270.00	1,089,600
		Total Rs.				3,420,139



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Municipal Committee Kot Addu

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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**WORK SHOP
CALCULATION OF QUANTITIES
CIVIL WORK**

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Excavation							
1	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)						
	ii) in ordinary soil.						
	Office wall 9" Thick Wall	1	47.00	3.00	3.00	423.00	Cft
	Center wall 4-1/2" Thick Wall	1	8.63	2.50	3.00	64.69	Cft
					Total	487.69	Cft
					Total	0.49	%oCft
Anti-Termite							
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Office wall 9" Thick Wall	1	47.00	9.00		423.00	Sft
	Center wall 4-1/2" Thick Wall	1	8.63	8.50		73.31	Sft
	Floor	1	7.75	14.25		110.44	Sft
					Total	606.75	Sft
Plain Cement Concrete							
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Office wall 9" Thick Wall	1	47.00	3.00	0.50	70.50	Cft
	Center wall 4-1/2" Thick Wall	1	8.63	2.50	0.50	10.78	Cft
					Total	81.28	Cft
					Total	0.81	%Cft



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Chief Officer
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Kot Addu

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M.C. Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**WORK SHOP
CALCULATION OF QUANTITIES
CIVIL WORK**

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Brick work in Foundation							
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
Office wall 9" Thick Wall							
	Step - 1	1	47.00	2.250	0.50	52.88	Cft
	Step - 2	1	47.00	1.875	0.50	44.06	Cft
	Step - 3	1	47.00	1.500	0.50	35.25	Cft
	Step - 4	1	47.00	1.125	0.50	26.44	Cft
	Step - 5	1	47.00	0.750	6.00	211.50	Cft
Center wall 4-1/2" Thick Wall							
	Step - 1	1	8.63	1.875	0.50	8.09	Cft
	Step - 2	1	8.63	1.500	0.50	6.47	Cft
	Step - 3	1	8.63	1.125	0.50	4.85	Cft
	Step - 4	1	8.63	0.750	6.50	42.05	Cft
						Total	431.58 Cft
						Total	4.32 %Cft
Horizontal D.P.C							
5	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) 1½" thick (40 mm)						
	Office wall 9" Thick Wall	2	47.00	0.75		70.50	Sft
	Center wall 4-1/2" Thick Wall	1	8.63	0.75		6.47	Sft
						Total	76.97 Sft
						Total	0.77 %Sft
Vertical D.P.C							
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge: ii) Ratio 1:3 ¾" thick (20 mm)						
	Office wall 9" Thick Wall	1	47.00		2.00	94.00	Sft
	Center wall 4-1/2" Thick Wall	1	8.63		1.00	8.63	Sft
						Total	102.63 Sft
						Total	1.03 %Sft

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PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
WORK SHOP
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Brick work in Super Structure							
7	Pacca brick work in ground floor:- i) Cement, sand mortar:- Ratio 1:5						
	Office wall 9" Thick Wall	1	47.00	0.75	11.00	387.75	Cft
	Center wall 4-1/2" Thick Wall	1	8.63	0.75	11.00	71.16	Cft
	Parapet Wall	1	47.00	0.38	2.50	44.06	Cft
	Entrance step	2	10.00	1.00	0.75	15.00	Cft
	D/d Doors and Window						
	D-1	-1	3.50	0.75	7.00	(18.38)	Cft
	D-2	-1	2.50	0.75	7.00	(13.13)	Cft
	W-1	-1	4.00	0.75	4.00	(12.00)	Cft
	V-1	-1	2.00	0.75	2.00	(3.00)	Cft
						Total	471.47 Cft
						Total	4.71 %Cft
Concrete Work							
8	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	Above foundation						
	(a) (i) 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 in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	9.25	15.75	0.50	72.84	Cft
	Doors and window Lintels						
	D-1	1	4.50	0.38	0.75	1.27	Cft
	D-2	1	3.50	0.75	0.75	1.97	Cft
	W-1	1	5.00	0.75	0.75	2.81	Cft
	V-1	1	3.00	0.75	0.75	1.69	Cft
						Total	80.58 Cft

Sub Engineer
M.C Kot Addu



Deputy Municipal Officer (R.S.)
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Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

WORK SHOP
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Steel Work.							
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):-						
	Deformed bars (Grade-60)					80.58	Cft
	Top Slab & lintel @ 6 lbs / Cft		6.00		=	483.47	lbs/cft
				Total	=	483.47	lbs/cft
				Total	=	219.36	Kg.
				Add 5% Wastage.	=	10.97	Kg.
				Total	=	230	Kg
						Total	2.30 %kg
Sand Filling							
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	7.75	14.25	1.00	110.44	Cft
					Total	110.44	Cft
						Total	1.10 %Cft
Brick ballast							
11	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.						
	Floor	1	7.75	14.25	0.33	36.44	Cft
					Total	36.44	Cft
						Total	0.36 %Cft
P.C.C							
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	Ratio 1: 2: 4						
	Floor	1	7.75	14.25	0.17	18.41	Cft
						Total	0.18 %Cft

Sub Engineer
M.C Kot Adu



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

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Municipal Committee
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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**WORK SHOP
CALCULATION OF QUANTITIES**

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Porcelain Tile						
13	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	c) (Non-Skid Chequered Tiles) 300mmx300mm	1	7.75	14.25		110.44	Sft
						Total	110.44 Sft
14	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	a) Full body Glazed Tile						
	(i) 400 mm x 400 mm	1	44.00	1.00	0.33	14.52	Sft
						Total	14.52 Sft
	Ceramic Tile						
15	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1	4.25	4.00		17.00	Sft
						Total	17.00 Sft
16	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"						
	Washroom	1	14.00		5.00	70.00	Sft
						Total	70.00 Sft

Sub Engineer
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Deputy Municipal Officer (I & S)
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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**WORK SHOP
CALCULATION OF QUANTITIES
CIVIL WORK**

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Slab Plaster						
17	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	7.75	14.25		110.44	Sft
						Total	1.10 %Sft
	Cement Plaster						
18	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Office wall 9" Thick Wall	1	47.00		11.00	517.00	Sft
	Center wall 4-1/2" Thick Wall	2	8.63		11.00	189.75	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	D-2	-1	2.50		7.00	(17.50)	Sft
	W-1	-1	4.00		4.00	(16.00)	Sft
	V-1	-1	2.00		2.00	(4.00)	Sft
						Total	644.75 Sft
						Total	6.45 %Sft
	Pointing						
19	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:-						
	a) ratio 1:2						
	Outer Walls	1	47.00		12.00	564.00	Sft
						Total	5.64 %Sft
20	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
						Total	5.64 %Sft
	Distempering						
21	Distempering:-						
	iii) three coats						
	Office wall 9" Thick Wall	2	47.00		11.00	1,034.00	Sft
	Center wall 4-1/2" Thick Wall	2	8.63		11.00	189.75	Sft
	Slab	1	7.75	14.25		110.44	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	D-2	-1	2.50		7.00	(17.50)	Sft
	W-1	-1	4.00		4.00	(16.00)	Sft
	V-1	-1	2.00		2.00	(4.00)	Sft
						Total	1,272.19 Sft
						Total	12.72 %Sft

Sub Engineer
M.C. Kot Addu



Deputy Municipal Officer (185)
Municipal Committee Kot Addu

Chief Officer
Municipal Committee
Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**WORK SHOP
CALCULATION OF QUANTITIES**

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Wooden Door						
22	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.						
	D-1	1	3.50		7.00	24.50	Sft
	D-2	1	2.50		7.00	17.50	Sft
					Total	42.00	Sft
	Formica Sheet						
23	Providing and fixing Formica sheet on bathroom door as per drawing and design complete in all respect.						
	D-2	1	2.50		7.00	17.50	Sft
24	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge						
	(ii) 10.50 " wide						
	D-1	1	17.50	0.875		15.31	Sft
					Total	15.31	Sft
25	Providing and fixing 3"x4-1/2" chowkat for doors, windows and C. windows, including holdfast, etc.						
	b) Deodar wood						
	D-2	1	16.50	0.46		7.56	Sft
					Total	7.56	Sft

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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**WORK SHOP
CALCULATION OF QUANTITIES
CIVIL WORK**

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
26	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	2	2.50			5.00	Rft
27	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect.						
	b) Deodar wood architrave						
	D-1	1	17.50	0.25		4.38	Sft
					Total	4.38	Sft
	Lock						
28	Providing and fixing, approved quality mortice lock.	2				2.00	Each
	Paint						
29	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii) Two coat						
					Total	0.84	Sft
	Aluminium Window						
30	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge						
	W-1	1	4.00		4.00	16.00	Sft
	V-1	1	2.00		2.00	4.00	Sft
					Total	20.00	Sft

Sub Engineer
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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Roof Insulation							
31	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.m bitumen coating sand blinded.						
	Roof area	1	9.25	15.75		145.69	Sft
					Total	145.69	Sft
					Total	1.46	%Sft
32	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. ii) 500 gauge (.005" thick)						
					Total	292.00	Sft
Khurras							
33	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	2				2.00	Each
Bottom Khurras							
34	Bottom Khurras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	2				2.00	Each
Excavation							
35	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) ii) in ordinary soil.						
	Columns	2	13.00	13.00	4.00	1,352.00	Cft
	Workshop Pit	1	20.00	4.75	5.33	506.35	Cft
					Total	1,858.35	Cft
					Total	1.86	%Cft

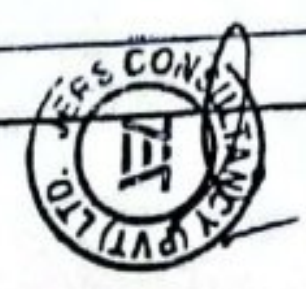


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Municipal Committee Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
WORK SHOP
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Anti-Termite							
36	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	15.00	32.00		480.00	Sft
	Columns	2	13.00	13.00		338.00	Sft
						Total	818.00 Sft
Plain Cement Concrete							
37	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	2	13.00	13.00	0.25	84.50	Cft
	Workshop Pit	1	20.00	4.75	0.33	31.35	Cft
						Total	115.85 Cft
						Total	1.16 %Cft
Concrete Work							
38	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	In Foundation						
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in (a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	Columns	2	12.00	12.00	1.50	432.00	Cft
	Workshop Pit	1	20.00	4.75	0.33	31.35	Cft
		45					

Sub Engineer
M.C.K.



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

Chief Officer of
Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
WORK SHOP
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Columns	2	3.00	1.50	4.75	42.75	Cft
	Plinth beam	1	15.00	0.75	1.50	16.88	Cft
					Total	522.98	Cft
Steel Work.							
39	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):-						
	Deformed bars (Grade-60)					522.98	Cft
	Columns @ 12 lbs / Cft		12.00		=	6,276	lbs/cft
				Total	=	6,276	lbs/cft
				Total	=	2,847	Kg.
				Add 5% Wastage.	=	142	Kg.
				Total	=	2,990	Kg
				Total		29.90	%kg
Brick work in Foundation							
40	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
		1	45.00	1.125	4.50	227.81	Cft
						Total	2.28 %Cft
Cement Plaster							
41	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
		1	45.00		4.50	202.50	Sft
						Total	2.03 %Sft
Sand Filling							
42	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	15.00	32.00	1.00	480.00	Cft
						Total	480.00 Cft
						Total	4.80 %Cft
Sub Base Course							

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 Chief Officer
 Municipal Committee
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**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
43	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	15.00	32.00	0.33	158.40	Cft
						Total	1.58 %Cft
Water Bound Macadam							
44	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	15.00	32.00	0.33	158.40	Cft
						Total	1.58 %Cft
45	Providing and laying Tuff pavers, having 7000 PSI, 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% Grey / 50% Coloured)						
	Shed	1	15.00	32.00		480	Sft
	Parking Shed						

*Sub Engineer
M.C Kot Addu*



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

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

**WORK SHOP
 CALCULATION OF QUANTITIES
 CIVIL WORK**

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
46	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	1	15.00	32.00		480	Sft



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 Deputy Municipal Officer (I.B.S.)
 Municipal Committee Kot Addu

[Signature]
 Chief Officer
 Municipal Committee
 Kot Addu

[Signature]
 Sub Engineer
 M.C Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

WORK SHOP

PLUMBING WORKS

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Qty.	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Indian W.C				
1	19-4-i	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.				
		i) white	Each	1.00	2,461.80	2,462
2	19-13-i	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.				
		i) white	Each	1.00	3,061.40	3,061
3	19-7-i	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.				
		i) white, with pedestal	Each	1.00	6,160.50	6,161
4	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	1.00	2,477.00	2,477
5	19-16	Providing and fixing, chromium plated soap dish.	Each	1.00	538.60	539
6	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	1.00	800.65	801
7	19-27	Providing and fixing chromium plated bib cock:-				
		i) 2 cm (3/4")	Each	1.00	1,081.60	1,082
8	19-28	Providing and fixing chromium plated tee stop cock 15mm (1/2").	Each	3.00	1,081.60	3,245
9	19-34-i	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-				
		i) 10x5 cm (4"x2")	Each	1.00	660.30	660
10	19-36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	1.00	1,168.45	1,168
11	19-35-ii	Providing and fitting "P" trap:-				
		ii) 10 cm (4") glazed.	Each	2.00	320.70	641

Sub Engineer
M.C Kot Adu



49 Deputy Municipal Officer (I & S)
Municipal Committee Kot Adu

Chief Engineer
Municipal Committee Kot Adu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

WORK SHOP

PLUMBING WORKS

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Qty.	Unit Rate (Rs)	Amount (Rs)
		PPRC Pipe				
12	23-47	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/ Popular /Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(i) (1/2") 20 mm	Rft	40.00	48.75	1,950
		(ii) (3/4") 25 mm	Rft	25.00	67.15	1,679
		Valve				
13	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		ii) 3/4" dia	Each	2.00	1,545.60	3,091
		uPVC Pipe				
14	19-47	Providing, fixing, testing and commissioning of u-PVC (Unplasticized polyvinyl Chloride) Nikasi /waste pipe make of dadex/Popular/Beta/BBJ plain/ socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge				
		Type (SDR 41/SN-4)				
		(iii) 2"(60 mm)	Rft	10.00	89.25	893
		(v) 4"(110 mm)	Rft	30.00	218.00	6,540
		Total Rs. (A)				36,449
		Non-Schedule Item				
15	N.S	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	1.00	17,890.62	17,891
		Total Rs. (B)				17,891
		Total Amount Rs. (A + B)				54,340

Sub Engineer
M.C Kot Addu



Deputy Municipal Officer (N.S.)
Municipal Committee Kot Addu

Chief Officer
Municipal Committee
Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

WORK SHOP

ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Muzafargarh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
Scheduled Items (A)						
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	200.00	86.35	17,270
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	350.00	101.60	35,560
3	C-24/10a.i	Supply and erection 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). (3.029)	Rft.	450.00	27.85	12,533
4	C-24/10a.ii	Supply and erection 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). (7.029)	Rft.	1.00	23.70	24
	C-24/10a.iii	Supply and erection 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). (7.036)	Rft.	260.00	44.05	11,453
5	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	2.00	295.90	592
6	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	2.00	96.95	194
7	C-24/36-ii	Supply and erection of 3 pin switch and Plug complete recessed type (10/15Amps)	Each (V&S)	6.00	167.75	1,007

Sub Engineer
M.C. Kot Addu



Deputy Municipal Engineer
Municipal Committee Kot Addu

Chief Officer
Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
WORK SHOP
ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Muzzafargarh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/43-	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete				
	C-24/43-ii	Single rod (40 watts) with one choke and one starter.	Each	3	1,444.20	4,333
		Sub Total (A)				82,964
10	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	1.00	7,000.00	7,000
11	N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220240V 50Wwith all accessories complete in all respects	Each	3.00	10,900.00	32,700
		Sub Total (B)				39,700
		Sub Total (A+B)				122,664



[Signature]
 Deputy Municipal Officer (BS)
 Municipal Committee Kot Addu

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 Chief Officer
 Municipal Committee
 Kot Addu

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 Sub Engineer
 M.C Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
PARKING SHED (SIZE 120' x 32')
CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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) By Manual				
		ii) in ordinary soil.	1000Cft	3.38	11,658.25	39,405
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	4,685.00	9.90	46,382
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	2.11	26,670.70	56,275
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		In Foundation				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(2) Type C (nominal mix 1: 2: 4)	P.Cft	1,378.13	446.40	615,195

Sub Engineer
Muzaffargarh



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Chief Officer
Municipal Committee
Muzaffargarh

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
PARKING SHED (SIZE 120' x 32')
CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
Steel Work.						
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	78.79	31,969.80	2,518,901
Sand Filling						
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	38.40	2,862.00	109,901
Sub Base Course						
7	18/3/a/ (ii) + 1/1	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)	100Cft	12.67	15,794.85	200,121
Water Bound Macadam						
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)	100Cft	12.67	18,382.51	232,906

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Sub Engineer
M.C Kot Addu



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

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Municipal Committee
Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**DETAILED COST ESTIMATE
PARKING SHED (SIZE 120' x 32')**

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
9	10/41	Providing and laying Tuff pavers, having 7000 PSI, 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% Grey / 50% Coloured)				
		c) 80-mm thick	Per Sft	3,840.00	197.15	757,056
10	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 111 Km)	Cft	1,412.71	63.33	89,467
		Parking Shed				
11	N.S	Providing, laying and fixing in position Pre-Engineered shed as per drawings and manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick (50-60 gm/sqm) fixed with rivet and bolts over GI Purlins 200x6 (OSF) 200 to 500 (Web)X4 200X6 (ISF) as shown in drawing No. ST-14 with approved Colour/ paint fitted with J-Type bolt having length 500 mm as shown in drawing. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought from Engineer Incharge prior to placement of order.	Sft	3,840.00	2,270.00	8,716,800
Total Rs.						13,382,408



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

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Chief Officer
Municipal Committee
Kot Adu

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Sub Engineer
Kot Adu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 120' x 32')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Excavation							
1	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)						
	ii) in ordinary soil.						
	Columns	5	13.00	13.00	4.00	3,380.00	Cft
						Total	3,380.00 Cft
						Total	3.38 %Cft
Anti-Termite							
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	120.00	32.00		3,840.00	Sft
	Columns	5	13.00	13.00		845.00	Sft
						Total	4,685.00 Sft
Plain Cement Concrete							
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	5	13.00	13.00	0.25	211.25	Cft
						Total	211.25 Cft
						Total	2.11 %Cft

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Sub Engineer
M.C. Kot Addu



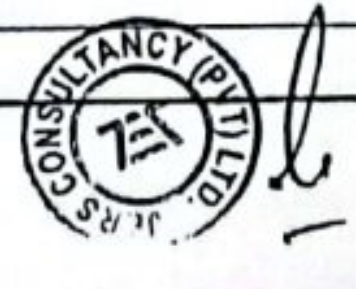
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Deputy Municipal Officer (I & S)
Municipal Committee Kot Addu

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Chief Officer
Municipal Committee
Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB
 PARKING SHED (SIZE 120' x 32')
 CALCULATION OF QUANTITIES
 CIVIL WORK**

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit	
Concrete Work								
4	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-							
In Foundation								
(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-								
	Columns footing	5	12.00	12.00	1.50	1,080.00	Cft	
	Columns	5	3.00	1.50	7.25	163.13	Cft	
	Plinth beam	1	120.00	0.75	1.50	135.00	Cft	
						Total	1,378.13	Cft
Steel Work.								
5	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):-							
Deformed bars (Grade-60)								
						1,378.13	Cft	
Columns @ 12 lbs / Cft			12.00	=		16,538	lbs/cft	
						Total	= 16,538	lbs/cft
						Total	= 7,503	Kg.
Add 5% Wastage.						=	375	Kg.
						Total	= 7,879	Kg
						Total	78.79	%kg
Sand Filling								
6	Supplying and filling sand under floor; or plugging in wells.							
	Shed	1	120.00	32.00	1.00	3,840.00	Cft	
						Total	3,840.00	Cft
						Total	38.40	%Cft

Sub Engineer
 M.C. Kot Addu



Deputy Municipal Officer (P.S.)
 Municipal Committee Kot Addu

Chief Officer
 Municipal Committee
 Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 120' x 32')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Sub Base Course							
7	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	120.00	32.00	0.33	1,267.20	Cft
						Total	12.67 %Cft
Water Bound Macadam							
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	120.00	32.00	0.33	1,267.20	Cft
						Total	12.67 %Cft
9	Providing and laying Tuff pavers, having 7000 PSI, 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% Grey / 50% Coloured)						
	Shed	1	120.00	32.00		3,840	Sft

Sub Engineer
M.C. Kot Addu



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

Chief Officer
Municipal Committee
Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

PARKING SHED (SIZE 120' x 32')

ELECTRICAL WORKS

Sl. No.	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
1	Scheduled Items (A)				
C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	200.00	101.60	20,320
C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in pre-laid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing and capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	50.00	27.85	1,393
C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in pre-laid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing and capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	390.00	44.05	17,180
C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	1.00	295.90	296
C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	1.00	96.95	97
	Sub Total (A)				39,285
N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220240V 50W with all accessories complete in all respects	Each	2.00	10,900.00	21,800
	Sub Total (B)				21,800
	Sub Total (A+B)				61,085

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Sub Engineer
M.C. Kor Addu



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

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Municipal Committee
Kor Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
PARKING SHED (SIZE 36' x 16')
CIVIL WORK

Sl. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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) By Manual				
		ii) in ordinary soil.	1000Cft	0.59	11,658.25	6,878
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	723.00	9.90	7,158
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.37	26,670.70	9,868
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		In Foundation				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(2) Type B (nominal mix 1: 2: 4)	P.Cft	206.06	446.40	91,986

Sub Engineer
Muzaffargarh



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

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
PARKING SHED (SIZE 36' x 16')
CIVIL WORK

Sr. No.	Ind Bi Annual 2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	11.78	31,969.80	376,604
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	5.76	2,862.00	16,485
		Sub Base Course				
7	18/3/a/ (ii) + 1/1	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)	100Cft	1.90	15,794.85	30,010
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)	100Cft	1.90	18,382.51	34,927

Sub Engineer
M.C. Kot Addu



Deputy Municipal Officer (I & S)
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PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 36' x 16')

CIVIL WORK

Sl. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
9	10/41	Tuff Paver Providing and laying Tuff pavers, having 7000 PSI, 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% Grey / 50% Coloured)			197/15	113559
		c) 80-mm thick	Per Sft	576.00	189.85	109,354
0	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 111 Km)	Cft	216.40	63.33	13,705
1	N.S	Parking Shed Providing, laying and fixing in position Pre-Engineered shed as per drawings and manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick (50-60 gm/sqm) fixed with rivet and bolts over GI Purlins 200x6 (OSF) 200 to 500 (Web)x4 200X6 (ISF) as shown in drawing No. ST-14 with approved Colour/ paint fitted with J-Type bolt having length 500 mm as shown in drawing. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought from Engineer Incharge prior to placement of order.	Sft	576.00	2,270.00	1,307,520
		Total Amount Rs.			2008700	2,004,495
		Cost of 1 Unit			2008700	2,004,495
		Cost of 2 Unit				4,008,990
						4017400

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 Sub Engineer
 M.C. Kot Addu



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

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 Chief Officer
 Municipal Committee
 Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 36' x 16')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Excavation							
1	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)						
	ii) in ordinary soil.						
	Columns	3	7.00	7.00	4.00	588.00	Cft
						Total	588.00 Cft
						Total	0.59 %Cft
Anti-Termite							
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	36.00	16.00		576.00	Sft
	Columns	3	7.00	7.00		147.00	Sft
						Total	723.00 Sft
Plain Cement Concrete							
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	3	7.00	7.00	0.25	36.75	Cft
						Total	36.75 Cft
						Total	0.37 %Cft

Sub Engineer
M.C. Kot Addu

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

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Chief Officer
Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 36' x 16')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Concrete Work							
4	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
In Foundation.							
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	Columns footing	3	6.50	6.50	1.00	126.75	Cft
	Columns	3	1.50	1.50	7.75	52.31	Cft
	Plinth Beam	1	36.00	0.75	1.00	27.00	Cft
						Total	206.06 Cft
Steel Work.							
5	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):-						
	Deformed bars (Grade-60)					206.06	Cft
	Columns @ 12 lbs / Cft		12.00			2,473	lbs/cft
				Total		2,473	lbs/cft
				Total		1,122	Kg.
				Add 5% Wastage.		56	Kg.
				Total		1,178	Kg
				Total		11.78	%kg
Sand Filling							
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	36.00	16.00	1.00	576.00	Cft
						Total	576.00 Cft
						Total	5.76 %Cft

Sub Engineer
M.C. Adu



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Deputy Municipal Officer (B.S.)
Municipal Committee Kot Adu

Chief Officer
Municipal Committee
Kot Adu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 36' x 16')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Sub Base Course							
7	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	36.00	16.00	0.33	190.08	Cft
					Total	1.90	%Cft
Water Bound Macadam							
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	36.00	16.00	0.33	190.08	Cft
					Total	1.90	%Cft
9	Providing and laying Tuff pavers, having 7000 PSI, 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% Grey / 50% Coloured)						
	Shed	1	36.00	16.00		576	Sft

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Sub Engineer



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

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Chief Officer
Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 36' x 16')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Parking Shed						
10	Providing, laying and fixing in position Pre-Engineered shed as per drawings and manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick (50-60 gm/sqm) fixed with rivet and bolts over GI Purlins 200x6 (OSF) 200 to 500 (Web)x4 200X6 (ISF) as shown in drawing No. ST-14 with approved Colour/ paint fitted with J-Type bolt having length 500 mm as shown in drawing. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought from Engineer Incharge prior to placement of order.	1	36.00	16.00		576	Sft



[Signature]
 Deputy Municipal Officer (I & S)
 Municipal Committee Kot Addu

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 Sub Engineer
 M.C Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
PARKING SHED (SIZE 36' x 16')(2 Nos.)
ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Muzzafargarh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
Scheduled Items (A)						
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	225.00	101.60	22,860
2	C-24/10a.i	Supply and erection 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). (3.029)	Rft.	25.00	27.85	696
3	C-24/10a.iii	Supply and erection 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). (7.029)	Rft.	350.00	44.05	15,418
4	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	1.00	295.90	296
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	1.00	96.95	97
Sub Total (A)						39,367
6	N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220,240V 50W with all accessories complete in all respects	Each	4.00	10,900	43,600
Sub Total (B)						43,600
Cost of 01 Unit (A+B)						82,967
Cost of 02 Unit						165,933

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Sub Engineer
 M.C. Kot Addu



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

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Deputy Officer
 Municipal Committee Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
WASHING PIT
CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
Excavation						
1	3/21/a/ii	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) By Manual				
		ii) in ordinary soil.	1000Cft	0.94	11,658.25	10,959
Sand Filling						
2	7/30	Supplying and filling sand under floor; or plugging in wells.	100Cft	1.26	2,862.00	3,606
Plain Cement Concrete						
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100 Cft	1.25	35,925.10	44,906
		(i) Ratio 1: 4: 8	100 Cft	3.21	26,670.70	85,613
Brick work in Foundation						
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:4	100 Cft	8.02	30,834.60	247,293
Concrete Work						
6	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
In Foundation						
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in (a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		24) Type C (nominal mix 1: 2: 4)	P.Cft	541.04	446.40	241,519

Sub...
 Deputy Municipal Officer (P&S)
 Municipal Committee Kot Addu
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 Municipal Committee
 Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
WASHING PIT
CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Above foundation				
		(a) (i) 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 in situ, complete in all respects:-				
		(3) Type C (nominal mix 1: 2: 4)	P.Cft	281.70	555.75	156,555
		Steel Work.				
	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	24.68	31,969.80	789,082
		Plaster				
	11/8/b	Cement plaster 1:3 upto 20' (6.00 m) height:-				
		b) ½" (13 mm) thick	100 Sft	2.83	3,635.05	10,287
		Mosaic flooring				
	10/22/a	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-				
		(a) using grey cement	100 Sft	1.05	21,446.05	22,518



[Signature]
 Deputy Municipal Officer (i & o)
 Municipal Committee Kot Addu

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Chief Officer,
 Municipal Committee
 Kot Addu

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 Sub Engineer
 M.C Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
WASHING PIT
CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Mosaic dado or skirting				
9	10/37	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1/2"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing:				
		(a) using grey cement:				
		ii) 1/2"(13 mm) thick	100 Sft	2.83	23,264.50	65,839
		M.S Grating				
0	18/23	Providing and fixing M.S Grating comprising of Angle Iron frame size 1.50" x 1.50" x 3/16" and 1/2" square bars duly welded @ 4" c/c, including painting charges etc complete in all respect.	Sft	60.00	1,723.25	103,395
1	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 111 Km)	Cft	1,138.22	63.33	72,083
		Total Amount Rs.				1,853,656



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

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 Sub Engineer
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PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
WASHING PIT
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Excavation							
1	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)						
	ii) in ordinary soil.						
	Washing Pit	1	37.50	10.17	2.00	762.75	Cft
	Drain	1	60.00	2.00	1.50	180.00	Cft
					Total	0.94	%Cft
2	Supplying and filling sand under floor; or plugging in wells.	1	37.50	10.17	0.33	125.85	Cft
					Total	1.26	%Cft
Plain Cement Concrete							
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4	1	100.00	5.00	0.25	125.00	Cft
	For Plinth				Total	1.25	%Cft
	(i) Ratio 1: 4: 8	1	37.50	10.17	0.33	125.85	Cft
	Washing Pit	1	100.00	5.00	0.33	165.00	Cft
	For Plinth	1	60.00	2.00	0.25	30.00	Cft
	Drain				Total	3.21	%Cft
Brick work in Foundation							
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:4						
	Washing Pit	1	13.00	1.875	0.50	12.19	Cft
	Step - 1	1	13.00	1.500	0.50	9.75	Cft
	Step - 2	1	13.00	1.125	5.50	80.44	Cft
	Step - 3	2	20.00	3.500	3.50	490.00	Cft
	Side walls	2	15.00	3.500	2.00	210.00	Cft
					Total	802.38	Cft
					Total	8.02	%Cft

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Chief Officer
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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**WASHING PIT
CALCULATION OF QUANTITIES
CIVIL WORK**

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Concrete Work							
5	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
In Foundation							
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	(2) Type C (nominal mix 1: 2: 4)						
	Washing Pit RCC Slab	1	36.00	9.50	1.50	513.00	Cft
	Drain	1	60.00	1.42	0.33	28.04	Cft
					Total	541.04	Cft
Above foundation							
	(a) (i) 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 in situ, complete in all respects:-						
	(3) Type C (nominal mix 1: 2: 4)						
	Washing Pit on Walls	2	36.00	3.50	1.00	252.00	Cft
	Drain	2	60.00	0.33	0.75	29.70	Cft
					Total	281.70	Cft
Steel Work.							
6	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):-						
	Deformed bars (Grade-60)					Total 823	Cft
	Total Concrete 3kg/cft		3			2,468	Kg
					Total	24.68	%Kg

*(Sub Engineer
M.C. Kot Addu*



*Deputy Municipal Officer (P.S.)
Municipal Committee Kot Addu*

*Chief Officer
Municipal Committee
Kot Addu*

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

**WASHING PIT
 CALCULATION OF QUANTITIES
 CIVIL WORK**

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Plaster							
7	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick						
	Wall	1	15.00		5.50	82.50	Sft
	Side Wall	2	20.00		3.50	140.00	Sft
		2	15.00		2.00	60.00	Sft
					Total	282.50	Sft
					Total	2.83	%Sft
Mosaic flooring							
8	1½"(40 mm) thick mosaic flooring, consisting of ½"(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement						
		1	35.00	3.00		105.00	Sft
					Total	1.05	%Sft
Mosaic dado or skirting							
9	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing:						
		1	15.00		5.50	82.50	Sft
		2	20.00		3.50	140.00	Sft
		2	15.00		2.00	60.00	Sft
					Total	282.50	Sft
					Total	2.83	%Sft



[Signature]
 Deputy Municipal Officer (I & S)
 Municipal Committee Kot Addu

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 Chief Officer
 Municipal Committee
 Kot Addu

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 Sub Engineer
 M.C. Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
EXTERNAL WORK
CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		PARTITION WALL				
		Excavation				
1	3/21/a/ii	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) By Manual				
		ii) in ordinary soil.	1000Cft	0.54	11,658.25	6,295
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	587.50	9.90	5,816
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.91	26,670.70	24,170
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	4.54	29,898.60	135,740
		Horizontal D.P.C				
5	6/36	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) 1½" thick (40 mm)	100 Sft	0.43	8,883.20	3,820

Sub Engineer
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PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
EXTERNAL WORK
CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Vertical D.P.C				
6	6/37	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge: ii) Ratio 1:3 ¾" thick (20 mm)	100 Sft	0.68	6,680.50	4,543
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:- i) Cement, sand mortar:- Ratio 1:5	100 Cft	2.54	32,301.00	82,045
		Cement Plaster				
8	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- ¾" (20 mm) thick	100 Sft	3.65	4,644.25	16,952
		Pointing				
9	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	3.65	3,774.25	13,776
0	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	3.65	822.00	3,000
		Distempering				
1	11/23	Distempering:- iii) three coats	100 Sft	3.20	1,446.35	4,628
2	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 111 Km)	Cft	85.89	63.33	5,439
		Total Rs. "A"				306,224



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

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Chief Officer
Municipal Committee
Kot Addu

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Sub Engineer
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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
		Borrow Earth				
13	3/5/i + 3/17	Earthwork in ordinary soil for embankment including ploughing and mixing with blade grade or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- 90% to 95% maximum modified dry density as determined according to AASHTO T-180 method-D including Transportation of earth.	1000Cft	104.06	17,627.60	1,834,328
		Sub Base Course				
14	18/3/a/ (ii) + 1/1	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)	100Cft	77.22	15,794.85	1,219,678
		Water Bound Macadam				
5	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)	100Cft	77.22	18,382.51	1,419,497

*(Sub Engineer
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PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
EXTERNAL WORK
CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
16	10/41	Tuff Paver Providing and laying Tuff pavers, having 7000 PSI, 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% Grey / 50% Coloured)				
		c) 80-mm thick	Per Sft	23,400.00	197.15	4,613,310
17	6/52	Kerb Stone Providing and fixing precast Edge Kerb Stone (4" to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect.				
		b) With Painting				
		(i) 14" high	Rft	100.00	521.65	52,165
18	3/32	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).	100 Sft	6.00	1,848.00	11,088
		Total Rs. "B"				9,150,067
		Total Rs. "A+B"				9,456,291






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

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
EXTERNAL WORK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
PARTITION WALL							
Excavation							
1	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)						
	ii) in ordinary soil.						
	Partition wall	1	40.00	3.00	3.00	360.00	Cft
	Partition wall Columns	5	3.50	3.50	3.00	183.75	Cft
					Total	543.75	Cft
					Total	0.54	%oCft
Anti-Termite							
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Partition wall	1	40.00	9.00		360.00	Sft
	Partition wall Columns	5	3.50	9.50		166.25	Sft
		5	3.50	3.50		61.25	Sft
					Total	587.50	Sft
Plain Cement Concrete							
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8	1	40.00	3.00	0.50	60.00	Cft
	Partition wall	5	3.50	3.50	0.50	30.63	Cft
	Partition wall Columns				Total	90.63	Cft
					Total	0.91	%Cft

Sub Engineer
Kot Addu



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Municipal Committee Kot Addu

Chief Officer
Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

EXTERNAL WORK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
	Partition wall						
	Step - 1	1	40.00	2.625	0.50	52.50	Cft
	Step - 2	1	40.00	2.250	0.50	45.00	Cft
	Step - 3	1	40.00	1.875	0.50	37.50	Cft
	Step - 4	1	40.00	1.500	0.50	30.00	Cft
	Step - 5	1	40.00	1.125	0.50	22.50	Cft
	Step - 6	1	40.00	0.750	5.50	165.00	Cft
	Partition wall Columns						
	Step - 1	5	3.00	3.00	0.50	22.50	Cft
	Step - 2	5	2.63	2.63	0.50	17.23	Cft
	Step - 3	5	2.25	2.25	0.50	12.66	Cft
	Step - 4	5	1.88	1.88	0.50	8.79	Cft
	Step - 5	5	1.50	1.50	0.50	5.63	Cft
	Step - 6	5	1.13	1.13	5.50	34.80	Cft
						Total	454.10 Cft
						Total	4.54 %Cft
	Horizontal D.P.C						
5	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) 1½" thick (40 mm)						
	Partition wall	1	40.00	0.75		30.00	Sft
	Partition wall Columns	10	1.13	1.13		12.66	Sft
						Total	42.66 Sft
						Total	0.43 %Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge: ii) Ratio 1:3 ¾" thick (20 mm)						
	Partition wall	1	40.00		1.50	60.00	Sft
	Partition wall Columns	5	1.13		1.50	8.44	Sft
						Total	68.44 Sft
						Total	0.68 %Sft

Sub Engineer
M.C. Kot Addu



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Deputy Municipal Officer (ES)
Municipal Committee Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
EXTERNAL WORK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Brick work in Super Structure							
7	Pacca brick work in ground floor:- i) Cement, sand mortar:- Ratio 1:5						
	Partition wall	1	40.00	0.75	7.00	210.00	Cft
	Partition wall Columns	5	1.13	1.13	7.00	44.30	Cft
					Total	254.30	Cft
					Total	2.54	%Cft
Cement Plaster							
8	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Partition wall	1	40.00		8.00	320.00	Sft
	Partition wall Columns	5	1.13		8.00	45.00	Sft
					Total	365.00	Sft
					Total	3.65	%Sft
Pointing							
9	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2						
	Outer Walls	1	40.00		8.00	320.00	Sft
	Partition wall Columns	5	1.13		8.00	45.00	Sft
					Total	365.00	Sft
					Total	3.65	%Sft
10	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.					Total	3.65 %Sft
Distempering							
11	Distempering:- iii) three coats						
	Partition wall	1	40.00		8.00	320.00	Sft
					Total	320.00	Sft
					Total	3.20	%Sft

Sub Engineer



Deputy Municipal Officer (I.E.)
Municipal Committee Kot Addu

Municipal Officer
Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
EXTERNAL WORK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Tuff Paver						
	Borrow Earth						
12	Earthwork in ordinary soil for embankment including ploughing and mixing with blade grade or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- 90% to 95% maximum modified dry density as determined according to AASHTO T-180 method-D including Transportation of earth.						
	Area	1	29,730	1.00	3.50	104,055	Cft
					Total	104,055	Cft
					Total	104.06	%oCft
	Sub Base Course						
13	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)						
		1	23,400	1.00	0.33	7,722.00	Cft
					Total	77.22	%Cft
	Water Bound Macadam						
14	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)						
		1	23,400	1.00	0.33	7,722.00	Cft

(Sub Engineer)
M.C Kot Addu



Deputy Municipal Officer (P.E.S.)
Municipal Committee Kot Addu

Chief Officer
Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
EXTERNAL WORK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
						Total	77.22 %Cft
	Tuff Paver						
15	Providing and laying Tuff pavers, having 7000 PSI, 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% Grey / 50% Coloured)						
	c) 80-mm thick	1	23,400	1.00		23,400	Sft
16	Providing and fixing precast Edge Kerb Stone (4" to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect.						
	b) With Painting						
	(i) 14" high	1	100			100	Rft
17	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).						
		1	600	1.00		600	Sft
						Total	6.00 %Sft



[Signature]
 Deputy Municipal Officer (I & S)
 Municipal Committee Kot Addu

[Signature]
 Chief Officer
 Municipal Committee
 Kot Addu

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 Sub Engineer
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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

EJECTOR PUMP

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Ejector Pump				
1	23/45/ii	P/F Ejector Pump of specified Suction and Delivery heads, coupled with Single Phase Seimen Electric Motor of required rating for water supply i/c the cost of connection charges, necessary wire, PVC pipes etc complete in all respect as approved and directed by the Engineer Incharge.				
		ii) G-IV (2-1/2"x2") with 2.5 HP Electric Motor, 38-Mtr Suction and 38 M delivery head	Each	1.00	19,360.20	19,360
		Boring				
2	23/1	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:-				
		c) 5" (125 mm) i/d	Rft	100.00	646.70	64,670
3	23/2	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:-				
		a) 5" (125 mm) i/d	Rft	100.00	1,083.25	108,325
4	23/16	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.				
		b) 4" i/d (100 mm)	Rft	50.00	451.30	22,565
5	23/17	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.				
		b) 1 1/2" i/d (40 mm)	Rft	200.00	152.95	30,590
		c) 2" i/d (50 mm)	Rft	70.00	221.20	15,484
6	23/11	Providing and installing, P.V.C. strainer B.S.S. Class 'B', in tubewell bore hole, including sockets and solvents, etc. complete:-				
		a) 3" i/d (75 mm)	Rft	30.00	187.95	5,639

Sub Engineer
M.C Kot Addu



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Deputy Municipal Officer (S.S.)
Municipal Committee Kot Addu

Chief Engineer
Municipal Committee
Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

EJECTOR PUMP

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
7	23/14	Providing and installing P.V.C. Bail/End plug, in tubewell bore hole:-				
		a) B.S.S. Class 'B'				
		i) 3" i/d (75 mm)	Rft	1.00	92.45	92
		Total Amount Rs.				266,725



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

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 Sub Engineer
 WMC Kot Addu

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PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE
EXTERNAL WATER SUPPLY

Sr. No.	1 st Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
Excavation						
1	3/44	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	1000Cft	4.73	8,321.30	39,318
HDPE Pipe						
2	23-43	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe, Beta/ Dadex/Popular/ IIL or equivalent including the cost of specials, in trenches, as approved & directed by the engineer incharge, complete in all respects				
c) PN-10 (SDR-17)						
		1) 25 mm	Rft	225.00	27.45	6,176
		3) 40 mm	Rft	250.00	53.10	13,275
		4) 50 mm	Rft	200.00	78.65	15,730
Valve						
3	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		v) 1-1/2" dia	Each	2.00	2,289.60	4,579
		vi) 2" dia	Each	2.00	2,709.60	5,419
Under Ground Water Tank						
Excavation						
4	3/21/a/ii	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) By Manual	1000Cft	0.89	11,658.25	10,376
		ii) in ordinary soil.				

(Signature)
Sub Engineer
M.C Kot Addu



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

(Signature)
Chief Officer
Municipal Committee Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
EXTERNAL WATER SUPPLY

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Plain Cement Concrete				
5	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.42	26,670.70	11,202
		Concrete Work				
6	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		In Foundation				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(3) Type C (nominal mix 1: 2: 4)	P.Cft	85.28	446.40	38,067
		(a) (i) 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 in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	278.09	555.75	154,549
7	6/12/c	Steel Work. 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):-				
		Deformed bars (Grade-60)	100kg	10.90	31,969.80	348,504

Sub Engineer



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

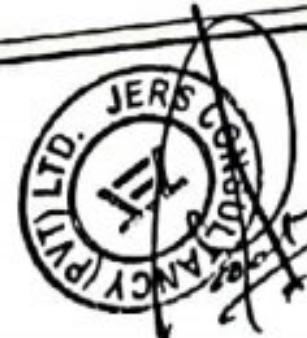
**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**DETAILED COST ESTIMATE
EXTERNAL WATER SUPPLY**

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
8	21/16	RCC Manhole Cover Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Each	1.00	16,029.45	16,029
9	21/13	Angle Iron Step Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	6.00	611.10	3,667
10	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 111 Km)	Cft	359.57	63.33	22,771
11	N.S	Pump Providing, installing, Fixing and commisioning of reciprocating pump with a capacity of 30 USGPM against a total head of 90 ft Cast Iron, Cylinder & Piston Rod in S.S., Crank Shaft in super finish S.G. Iron, Gland Nut in Brass and abrasion proof silently working Valves fitted on easily Feat accessible S.S., ABS or Cast Iron Valve Plate with Brass Seats, All Gaskets are in Rubber and Rocker Rail in Galvanized Mild Steel with Insulation Bushes complete system installed upto satisfaction of engineer in charge, complete in all respects	Each	1.00	38,350	38,350
Total Rs						728,014

(Sub Engineer)
M.C Kot Addu

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

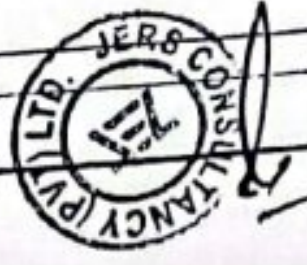


Chief Officer
Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
EXTERNAL WATER SUPPLY

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
Excavation							
1	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.						
	Water supply Pipe	1	675.00	2.00	3.50	4,725.00	Cft
					Total	4.73	%oCft
HDPE Pipe							
2	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe, Beta/ Dadex/Popular/ IIL or equivalent including the cost of specials, in trenches, as approved & directed by the engineer incharge, complete in all respects						
	c) PN-10 (SDR-17)						
	1) 25 mm	1	225.00			225.00	Rft
	3) 40 mm	1	250.00			250.00	Rft
	4) 50 mm	1	200.00			200.00	Rft
Valve							
3	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.						
	v) 1-1/2" dia	2				2.00	Nos.
	vi) 2" dia	2				2.00	Nos.
Under Ground Water Tank							
Excavation							
4	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) By Manual						
	ii) in ordinary soil.	1	12.33	10.33	7.00	890.95	Cft
					Total	0.89	%oCft
Plain Cement Concrete							
5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8	1	12.33	10.33	0.33	42.00	Cft
					Total	0.42	%oCft

(Sub Engineer)



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

Municipal Committee
Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
EXTERNAL WATER SUPPLY

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Concrete Work						
6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	In Foundation						
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	(3) Type C (nominal mix 1: 2: 4)	1	12.33	10.33	0.67	85.28	Cft
	(a) (i) 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 in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)	1	38.66	0.67	8.00	207.24	Cft
	Walls	1	11.33	9.33	0.67	70.85	Cft
	Top Slab				Total	278.09	Cft



[Signature]
 Deputy Municipal Officer (I & S)
 Municipal Committee Kot Addu

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**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

**DETAILED COST ESTIMATE
 EXTERNAL WATER SUPPLY**

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
Steel Work.							
7	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):-						
	Deformed bars (Grade-60) (3 kg/cft)						
						Total	1,090.10 Kg
RCC Manhole Cover							
8	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	1				1.00	Nos
Angle Iron Step							
9	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	6				6.00	Nos.



[Signature]
 Deputy Municipal Officer (S)
 Municipal Committee Kot Addu

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 Chief Officer
 Municipal Committee
 Kot Addu

[Signature]
 Sub Engineer
 M.C Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
EXTERNAL SEWERAGE SYSTEM

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/42	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	3.37	11,658.25	39,274
		Sand Filling				
2	21/24	Providing and laying sand under and around the sewer pipe, including leveling, manual compaction, complete in all respect.	100Cft	9.63	2,862.00	27,547
		uPVC Pipe				
3	19/48	Providing, fixing, testing and commissioning of u-PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.				
		a) Type (SDR 34/SN-8)				
		i) 6" dia 150mm	Rft	315.00	1,144.35	360,470
		ii) 8" dia 200 mm	Rft	70.00	1,723.60	120,652
4	N.S Rate Analysis	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	6.00	18,596.98	111,582
		Total Rs				659,525

(Sub Engineer)
M.C. Kot Addu


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



 Municipal Engineer
 Municipal Committee
 Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
SEPTIC TANK
CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
Excavation						
1	3/42	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	0.33	11,658.25	3,847
Plain Cement Concrete						
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100 Cft	0.08	35,925.10	2,874
		(i) Ratio 1: 4: 8	100 Cft	0.27	26,670.70	7,201
Brick work						
3	7/7/i	Pacca brick work other than building upto 10ft. (3 m)				
		Ratio 1:3	100 Cft	2.28	33,440.90	76,245
Concrete Work						
	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		(a) (i) 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 in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	16.88	555.75	9,378

[Signature]
 Sub Engineer
 M.C. Kot Addu

[Signature]
 Deputy Municipal Officer (S.S.)
 Municipal Committee Kot Addu



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[Signature]
 Chief Officer
 Municipal Committee
 Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
SEPTIC TANK
CIVIL WORK**


Sl. No.	1st Bi-Annual- 2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	0.42	31,969.80	13,487
		Cement Pointing				
	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:-				
		a) ratio 1:2	100Sft	2.64	3,774.25	9,964
		RCC Manhole Cover				
	21/16	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Each	2.00	16,029.45	32,059
		Angle Iron Step				
	21/13	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	14.00	611.10	8,555
	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 111 Km)	Cft	47.48	63.33	3,007
		Total Amount Rs.				166,618



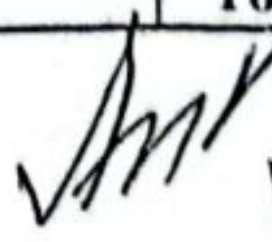
Municipal Officer (I & S)
Muzaffargarh

16 CITIES PROGRAM (PCP)
SUPERVISION IN 16 CITIES OF PUNJAB
SEPTIC TANK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Excavation							
	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock.						
	i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth						
	Septic tank	1	8.50	5.50	7.00	327.25	Cft
						Total	327.25 Cft
						Total	0.33 %Cft
Plain Cement Concrete							
	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4	3	1.75	3.00	0.50	7.88	Cft
						Total	7.88 Cft
						Total	0.08 %Cft
	(i) Ratio 1: 4: 8						
	Septic tank	3	1.75	3.00	0.33	5.25	Cft
	Outer Wall	1	24.00	2.00	0.33	16.00	Cft
	Baffle wall	2	6.00	1.50	0.33	6.00	Cft
						Total	27.25 Cft
						Total	0.27 %Cft
Brick work							
	Pacca brick work other than building upto 10ft. (3 m)						
	Ratio 1:3						
	Outer wall	1	24.00	1.88	0.50	22.50	Cft
		1	24.00	1.50	0.50	18.00	Cft
		1	24.00	1.13	0.50	13.50	Cft
		1	24.00	0.75	8.00	144.00	Cft
	Baffle wall	2	3.00	1.13	0.50	3.38	Cft
		2	3.00	0.75	6.00	27.00	Cft
						Total	228.38 Cft
						Total	2.28 %Cft


 (Sub Engineer
 M.C. Kot Addu




 Chief Officer
 Municipal Committee
 Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

SEPTIC TANK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Concrete Work							
4	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	(a) (i) 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 in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)	1	7.50	4.50	0.50	16.88	Cft
Steel Work.							
5	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):-						
	Deformed bars (Grade-60)		2.50 kg/cft			42.19	Kg
					Total	0.42	%Kg
Cement Pointing							
6	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2	1	24.00		8.00	192.00	Sft
		4	3.00		6.00	72.00	Sft
					Total	264.00	Sft
					Total	2.64	%Sft
RCC Manhole Cover							
7	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37 324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	2				2.00	Nos.

(Sub Engineer)
M.C. Kol Adu



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Deputy Municipal Officer (R&S)
Municipal Committee Kol Adu

Municipal Officer
Municipal Committee
Kol Adu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
SEPTIC TANK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
8	Angle Iron Step Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	14				14.00	Nos.




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


 Chief Officer
 Municipal Committee
 Kot Addu


 Sub Engineer
 M.C Kot Addu



PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
EXTERNAL DRAINAGE SYSTEM

Sr. No.	Ind III-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
Excavation						
1	3/42	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	3.94	11,658.25	45,904
Sand Filling						
2	21/24	Providing and laying sand under and around the sewer pipe, including leveling, manual compaction, complete in all respect.	100Cft	11.25	2,862.00	32,198
uPVC Pipe						
3	19/48	Providing, fixing, testing and commissioning of u-PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.				
		a) Type (SDR 34/SN-8)	Rft	150.00	1,144.35	171,653
		i) 6" dia 150mm	Rft	300.00	1,723.60	517,080
		ii) 8" dia 200 mm				
4	N.S Rate Analysis	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	3.00	18,596.98	55,791
Total Rs						822,625

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

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 Sub Engineer
 M.C. Kot Addu



PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
EXTERNAL DRAINAGE SYSTEM

No.	Description	No	Length	Width	Height	Qty.	Unit
Excavation							
1	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth						
	uPVC pipe	1	450.00	2.50	3.50	3,937.50	Cft
						Total	3.94 %Cft
Sand Filling							
	Providing and laying sand under and around the sewer pipe, including leveling, manual compaction, complete in all respect.	1	450.00	2.50	1.00	1,125.00	Cft
						Total	11.25 %Cft
uPVC Pipe							
	Providing, fixing, testing and commissioning of u-PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.						
	a) Type (SDR 34/SN-8)						
	i) 6" dia 150mm	1	150.00			150.00	Rft
	ii) 8" dia 200 mm	1	300.00			300.00	Rft
	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	3				3.00	Nos.

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 Deputy Municipal Engineer (DSE)
 Municipal Committee Kot Addu

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 Sub Engineer
 M.C. Kot Addu



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 Chief Officer
 Municipal Committee
 Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

SILT HOLDING TANK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
SILT HOLDING TANK						
Excavation						
3/42		Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	0.32	11,658.25	3,731
Plain Cement Concrete						
6/5		Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100 Cft	0.05	35,925.10	1,796
		(i) Ratio 1: 4: 8	100 Cft	0.13	26,670.70	3,467
Concrete Work						
6/6		Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		(a) (i) 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 in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	127.13	555.75	70,650
Steel Work.						
6/12/c		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):-				
		Deformed bars (Grade-60)	100kg	121.925	969.80	121,925

Sub Engineer



Deputy Municipal Engineer
Muzaffargarh Municipal Committee Kot Agha

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
SILT HOLDING TANK

Ind Bi Annual- 2023 (Jan to June) Muzaffargarh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
19/40	C.I Cover Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia	Each	1.00	2,426.30	2,426
21/13	Angle Iron Step Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	5.00	611.10	3,056
23/21	C.I Vent Pipe Providing, laying, cutting, jointing, testing and disinfecting cast iron pipe line (BS-2035) in trenches, with flanged and flanged joints, complete in all respects:- a) 3" (75 mm) i/d	Rft	5.00	1,284.65	6,423
1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 111 Km)	Cft	124.19	63.33	7,865
Total Rs					221,339



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

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 Sub Engineer
 M.C. Kot. Adu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

EXTERNAL WORKS

PLUMBING WORKS

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
SILT HOLDING TANK							
Excavation							
1	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1	8.00	5.00	8.00	320.00	Cft
					Total	0.32	%Cft
Plain Cement Concrete							
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4	1	6.00	3.00	0.25	4.50	Cft
					Total	0.05	%Cft
	(i) Ratio 1: 4: 8	1	8.00	5.00	0.33	13.20	Cft
					Total	0.13	%Cft
Concrete Work							
3	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	(a) (i) 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 in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)	1	21.00	0.75	7.00	110.25	Cft
	Walls	1	7.50	4.50	0.50	16.88	Cft
	Top Slab				Total	127.13	Cft
Steel Work.							

Sub Engineer
M.C Kot Addu
Deputy Municipal Officer (I & S)
Municipal Committee Kot Addu



Chief Officer
Municipal Committee
Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

EXTERNAL WORKS

PLUMBING WORKS

Sl. No.	Description	No	Length	Width	Height	Qty.	Unit
4	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):-						
	Deformed bars (Grade-60) (3 kg/cft)				Total	381.38	Kg
C.I Cover							
5	Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia	1				1.00	Nos
Angle Iron Step							
5	Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	5				5.00	Nos.



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

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 Sub Engineer
 M.C. Kot Addu

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 Chief Officer
 Municipal Committee
 Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

DISMANTLING WORK

CIVIL WORK

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Qty.	Unit Rate (Rs)	Amount (Rs)
		Dismantling				
1	4/29	Dismantling brick or flagged flooring without concrete foundation	100Cft	81.55	942.50 4,712.40	78,768.61 384,296
		Deduction				
		Deduction of used bricks from original quantity.	1000 No.	12.66	(4,200.00)	(53,156)
					Total Rs.	331,140
						23705



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 Deputy Municipal Officer (AS)
 Municipal Committee Kot Addu

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 Sub Engineer
 M.C. Kot Addu

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PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DISMANTLING WORK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Dismantling						
1	Dismantling brick or flagged flooring without concrete foundation						
	Tuff Paver Area	1	5,655	1.00		5,655.00	Sft
	Brick soling Area	1	2,500	1.00		2,500.00	Sft
						Total	81.55 %Sft

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 Sub Engineer
 M.C. Kot Addu

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

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 Chief Officer
 Municipal Committee
 Kot Addu



**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS**

Sr. No.	1st Bi-Annual 2023 (Jan to Jun) Muzzafergarh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
Scheduled Items (A)						
Excavation						
1	3/21	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) By Manual						
		ii) in ordinary soil.	1000Cft	3.29	11,658.25	38,356
RCC Foundation for Poles						
2	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(3) Type C (nominal mix 1: 2: 4)	Cft	121.00	446.40	54,014
Steel Work						
3	6/12/b	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 (Grade-40)	100Kg	3.60	16,042.65	57,754

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(Sub Engineer)
M.C. Not Adu
Muzzafergarh
Municipal Officer (I & S)



Chief Engineer
Municipal Committee
Muzzafergarh

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS**

1st Bi-Annual- 2023 (Jan to Jun) Muzafargarh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
24/13b.iii	Supply and erection of 3 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). (7.029)	Rft.	750.00	114.25	85,688
24/6i	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:- i) 50 mm i/d	Rft	900.00	177.75	159,975
24/12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- iv) 16 mm sq (7/0.064")	Rft	100.00	208.35	20,835
24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire / trenches, etc. (rate for cable only):- a) PVC insulated, PVC sheathed twin core, 250/440 volts. v) 7/1.12 mm (7/0.044")	Rft	750.00	173.45	130,088
	b) PVC insulated, PVC sheathed 3 core, 600/1000 volt cable:- v) 7/1.12 mm (7/0.044")	Rft	350.00	267.15	93,503
	c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- vi) 10 mm (7/0.052")	Rft	360.00	525.75	189,270
	vii) 16mm (7/0.064")	Rft	100.00	694.80	69,480



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Chief Officer
Municipal Committee
Kot Aadu

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

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS**

Sr. No.	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
1st Bi-Annual- 2023 (Jan to Jun) Muzafargarh					
24/68	Supplying, installation testing and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel, tapered from 225 mm at bottom to 100 mm at top, with 1500 mmx60 mm dia. arm for luminaire installation, duly G.I. welded with 470x470x20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet, with built in junction box with shutter, i/c the cost of nuts & J-rag bolts, duly fixed in pre-laid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer Incharge.				
	a) Single Arm				
	(i) 10 mtr height	Each	5.00	116,336.50	581,683
	b) Double Arm				
	(i) 10 mtr height	Each	2.00	120,152.50	240,305
24/69	Supplying, installation and commissioning of LED Cobra-head Luminaries of specified wattage and lumens conforming to IP 65, Philips/Osram/Thorn with corrosion resistant die casted aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection i/c the cost of all accessories/components required for proper operation, fully flexible for future upgradation and easy replacements for maintenance purposes, bucket elevator charges as approved and directed by the Engineer Incharge.				
	c) 120 Lm/Watt				
	(vi) 120 Watt with 14400 Lumens	Each	9.00	56,198.60	505,787
24/77	Supply and erection of electric energy meter, including meter testing fee, etc.				
	b) three phase, 4 wires:				
	iii) 3x80 Amp, 400 volts	Each	1.00	15,987.30	15,987

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Muzafargarh Municipal Committee Kot Addu
Muzafargarh Municipal Committee Kot Addu



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Chief Officer
Municipal Committee
Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

**DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS**

1st Bi-Annual 2023 (Jan to Jun) Muzzafargarh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
24/86	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	a) Single Pole				
	(ii) 6-40 Amp (6 KA)				
	DB admin block & Shed-02	Each	17.00	1,184.45	20,136
	DB GR,EXT,Shed-01	Each	5.00	1,184.45	5,922
	DB work shop /Store	Each	12.00	1,184.45	14,213
	b) Double Pole				
	(ii) 6-40 Amp (6 KA)	Each			
	DB admin block & Shed-02	Each	1.00	3,614.45	3,614
	DB GR,EXT,Shed-01	Each	3.00	3,614.45	10,843
	DB work shop /Store	Each	-	3,614.45	-
	c) Tripple Pole				
	(iii) 6-63 Amp (10 KA)				
	MPB & All DBs	Each	11.00	11,076.95	121,846
24/90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
	(a) 6" deep				
	(i) 20~60A				
	DB admin block & Shed-02	Cft	1.50	19,686.70	29,530
	DB GR,EXT,Shed-01	Cft	1.50	19,686.70	29,530
	DB work shop /Store	Cft	1.50	19,686.70	29,530
	MPB	Cft	0.50	19,686.70	9,843

Sub Engineer
M.C. K. Adu



Municipal Committee
Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

**DETAILED COST ESTIMATE
 EXTERNAL ELECTRICAL WORKS**

F. No. Muzzafargarh 1st Bi-Annual- 2023 (Jan to Jun)	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
5	24/105/iii Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge (iii) 25 KVA	Each	1.00	581,485.15	581,485
6	24/70 Earthing of iron clad/aluminum switches, etc. with G.I. wire No. 8 SWG in G.I. pipe 15 mm (1/2") dia, recessed or on surface of wall and floor, complete with 1.5 metre long G.I. pipe, 50 mm (2") dia with reducing socket 4 to 5 metre below ground level, and 2 metre away from building plinth.	Job	3.00	10,198.95	30,597
7	24/72 Bonding to earth with wire on surface, including cost of wire, clamps, thimbles, etc. a) G.I. wire: i) 8 SWG	Per Rft.	100.00	25.20	2,520
Sub Total Scheduled Items: (A)					322,764
					3,171,708
N.S Rate Analysis	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	5.00	18,596.98	92,985

(Sub Engineer)
M.C Kot Addu



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Municipal Committee
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Municipal Committee
Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

**DETAILED COST ESTIMATE
 EXTERNAL ELECTRICAL WORKS**

1st Bi-Annual 2023 (Jan to Jun) Muzafargarh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
N.S.	Supply, installation, testing, and comissioning of following equipment to be installed in already made DB Box for motor including cost of all necessary accessories i.e: contactors, relay, indication lights, with ON/OFF push button complete in all respects.				
	i) Direct of Line (DOL) Starter for 3HP Motor	Set	1.00	45,110	45,110
	ii) Direct of Line (DOL) Starter for 5HP Motor	Set	1.00	57,060	57,060
	Total Cost (Part B)			Rs.	195,155
	Grand Total (Part A + Part B)			Rs.	3,366,863

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 Deputy Municipal Officer (I) (8S)
 Municipal Committee Kot Addu

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 Chief Officer
 Municipal Committee
 Kot Addu

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 Sub Engineer
 M.C Kot Addu

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**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

**DETAILED COST ESTIMATE
 ENVIRONMENTAL HEALTH & SAFETY COST**

Sr No	Description	Unit	Quantity	Unit Rate (Rs.)	Amount Rs.
	Labor Safety				
1	Face Masks (3 PLY)	Nos	10.00	700.00	7,000
2	Safety Gum Shoes	Nos	15.00	1,350.00	20,250
4	First Aid Box (Including essential Medicine)	Nos	15.00	245.00	3,675
5	Safety Hard Helmets MSA	Nos	1.00	5,000.00	5,000
6	Safety Goggles	Nos	15.00	2,000.00	30,000
7	Reflective Safety Vests	Nos	15.00	550.00	8,250
		Nos	15.00	550.00	8,250
				Sub Total	82,425
	Working Site Safety				
1	Reflective Safety Signs Boards	Nos	2.00	10,000.00	20,000
2	Reflective Safety Barricading Tape	Nos	2.00	1,500.00	3,000
3	Fire Extinguishers DCP	Nos	1.00	7,000.00	7,000
				Sub Total	30,000
	Total Amount (Rs)				112,425



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

Signature
 Sub Engineer
 Municipal Committee Kot Addu

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

Rate Analysis - 1

Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 111 Km)

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	1/1	Carriage of 100 cft of all materials like stone aggregate spawl kankar lime surkhi etc or 150 cft of timber by truck or by any other means owned by the contractor.					
		1st KM	100 Cft	1	1	305.40	305
		2nd KM	100 Cft	1	1	145.65	146
		3rd KM	100 Cft	1	1	114.10	114
		4th KM	100 Cft	1	1	81.20	81
		5th KM	100 Cft	1	1	75.85	76
		6th KM	100 Cft	1	1	74.65	75
		7th KM	100 Cft	1	1	69.60	70
		8th KM	100 Cft	1	1	68.85	69
		9th KM	100 Cft	1	1	64.75	65
		10th KM	100 Cft	1	1	60.75	61
		From 11 km to 200 km	100 Cft	101	1	52.20	5,272
		Total.					6,333.00
		Total Amount per 100 Cft					6,333.00
		Total Cost for Per Cft					63.33



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 Chief Officer
 Municipal Committee
 Kot Adu

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 Sub Engineer
 M.C Kot Adu

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**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB
 EARTH WORK LEAD CHART**

Rate Analysis - 2

Sr. No.	Ind Bi-Annual-2023 (Jan to june) Muzaffargarh	Description	Lead	Unit.	Qty	Rate (Rs)	Amount (Rs)
1	3/5/i	Earthwork in ordinary soil for embankments lead upto 100 ft. (30 m), including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:-					
		i) 95% to 100% maximum modified AASHO dry density.	1	1000Cft	1	9,963.35	9,963.35
2	3/17 a.b.c	Carriage					
		upto ¼ mile (400 m).	1	1000 Cft	1	4,472.30	4,472.30
		for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	12	1000 Cft	1	36.85	442.20
		for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km).	8.5	1000 Cft	1	323.50	2,749.75
		for every ½ mile (800 m) additional lead or part thereof, beyond 5 miles (8 Km).	0	1000 Cft	1	305.45	-
		Total Amount 1,000 (Rs.).					17,627.60
		Total Amount Per Cft					17.63

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



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 Sub Engineer
 M.C Kot Addu

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 Chief Engineer
 Municipal Committee Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

Rate Analysis - 3

Description
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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)

Crush Stone

Sr. No.	Ind Bi-Annual-2023 (Jan to June) Muzaffargarh	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs)
1		Material					
	18-3 a(ii)	ii) Crushed stone aggregate.	100 Cft	1	1	8,195.25	8,195.25
2		Carriage					
	1/1	1st KM	100 Cft	1	1.2	305.40	366.48
		2nd KM	100 Cft	1	1.2	145.65	174.78
		3rd KM	100 Cft	1	1.2	114.10	136.92
		4th KM	100 Cft	1	1.2	81.20	97.44
		5th KM	100 Cft	1	1.2	75.85	91.02
		6th KM	100 Cft	1	1.2	74.65	89.58
		7th KM	100 Cft	1	1.2	69.60	83.52
		8th KM	100 Cft	1	1.2	68.85	82.62
		9th KM	100 Cft	1	1.2	64.75	77.70
		10th KM	100 Cft	1	1.2	60.75	72.90
		From 11 km to 200 km	100 Cft	101	1.2	52.20	6,326.64
		Total.					15,794.85
		Total Amount per 100 Cft					15,794.85
		Total Cost for Per Cft					157.95



Chief Officer
Municipal Committee
Kot Adu

Deputy Municipal Officer (I/S)
Municipal Committee Kot Adu

Sub Engineer
M.C Kot Adu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

Rate Analysis - 4

Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sakhi Sarwar quarry to site, actual compacted depth shall be considered for payment)

Sr. No.	Ind Bi-Annual-2023 (Jan to june) Muzaffargarh	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	18/4(a)	Crushed stone	100 Cft		1	10,656.25	10,656
2	1/1	Carriage of 100 cft of all materials like stone aggregate spawl kanker lime surkhi etc or 150 cft of timber by truck or by any other means owned by the contractor.					
		1st KM	100 Cft	1	1.22	305.40	373
		2nd KM	100 Cft	1	1.22	145.65	178
		3rd KM	100 Cft	1	1.22	114.10	139
		4th KM	100 Cft	1	1.22	81.20	99
		5th KM	100 Cft	1	1.22	75.85	93
		6th KM	100 Cft	1	1.22	74.65	91
		7th KM	100 Cft	1	1.22	69.60	85
		8th KM	100 Cft	1	1.22	68.85	84
		9th KM	100 Cft	1	1.22	64.75	79
		10th KM	100 Cft	1	1.22	60.75	74
		From 11 km to 200 km	100 Cft	101	1.22	52.20	6,432
		Total.					18,382.51
		Total Amount per 100 Cft					18,382.51
		Total Cost for Per Cft					183.83



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Municipal Committee Kot Addu

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Sub Engineer
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[Signature]
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Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

Rate Analysis - 5

Manhole Construction 2 x 2 Ft								Unit	Each
Ind Bi-Annual- 2023 (Jan to june) Muzaffargarh	Description	No.	Length	Width	Height	Qty	Unit	Rate (Rs)	Amount (Rs)
3-42-i	Excavation. (0 to 7 feet depth)	1	3.50	3.50	3.00	36.75	1000 Cft	12,836.55	471.74
6-3-b	Cement concrete brick or stone ballast (1:4:8)	1	3.50	3.50	0.33	4.04	100 Cft	25,659.60	1,037.29
6-5-f	Base slab	1	3.50	3.50	0.25	3.06	100 Cft	35,925.10	1,100.21
6-6(a)(i)	Top ring Beam Ratio 1:2:4	1	3.500	3.50	0.33	4.04	100 Cft	555.75	2,246.62
6/12 (c)	Steel work		3.00 kg per cft			14.15	kg	31,969.80	4,523.33
7-7-i	Brick Work Ratio 1:3 Step - 1	1	11.00	0.75	2.00	16.50	100 Cft	33,440.90	5,517.75
11-8-c	3/4" thick Plaster Ratio 1:3 (External)	1	11.00		2.00	22.00	100 Sft	4,850.65	1,067.14
11-18-a	Cement pointing struck joints, on walls (1:2) (Internal)	1	8.00		2.00	16.00	100 Sft	3,774.25	603.88
13-9-i	Bitumen Coating on External Plaster	1	11.00		2.00	22.00	100 Sft	2,257.40	496.63
19-40-ii	Supply and fitting of cast iron manhole cover ii) 45 cm (18") dia	1				1.00	Each	1,532.40	1,532.40
Grand Total.									18,597



Sub Engineer
M.C. Khatun

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

RATE ANALYSIS

Description

Providing, laying and fixing in position Pre-Engineered shed as per drawings and manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick (50-60 gm/sqm) fixed with rivet and bolts over GI Purlins 200x6 (OSF) 200 to 500 (Web)X4 200X6 (ISF) as shown in drawing No. ST-14 with approved Colour/ paint fitted with J-Type bolt having length 500 mm as shown in drawing. This item includes all cost of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought from Engineer Incharge prior to placement of order.

Ref	Detail	Unit Rate (British System) per Sft		
		Qty	Rate Per Unit	Amount (Rs.)
	Area 1 Sft			
	<u>Material</u>			
MR	Supply of PEB Shed = 1600/-	1	Sft	1,888.00
	Add 18% G.S.T = 288/-			
	<u>G.TOTAL = 1888/-</u>			
	Contractor's Profit		20 %	378
	Total			2,266
	<u>ITEM RATES</u>			
	Composite rate Per Sft			Rs. 2,270



[Signature]
 Deputy Municipal Officer (I & S)
 Municipal Committee Kot Addu

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 Sub Engineer
 M.C Kot Addu

[Signature]
 Chief Officer
 Municipal Committee
 Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

RATE ANALYSIS

Description

Supply, installation, testing, and commissioning of following equipment to be installed in already made DB Box for motor including cost of all necessary accessories i.e: contactors, relay, indication lights, with ON/OFF push button complete in all respects.

Sr. No.	Ref	Detail	Unit Rate (British System) per Each		
			Qty	Rate Per Unit	Amount (Rs.)
		Material			
1	MR	i) Direct of Line (DOL) Starter for 5HP Motor	1.00	No. 44,600	No.
					Total. 44,600
2		Carriage & Installation Charges			2,945
					Total. 47,545
		Contractor's Profit on item No. (1&2)	20	%	9,509
		Total			57,054
		ITEM RATES			
		Composite rate Per Each			Rs. 57,060



[Signature]
 Deputy Municipal Officer (I & S)
 Municipal Committee Kot Addu

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 Kot Addu

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 M.C. Kot Addu

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

RATE ANALYSIS

Description

Supply, Installation, testing and commissioning of following Flood Light, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.

Sr. No.	Ref	Detail	Unit Rate (British System) per Each		
			Qty	Rate Per Unit	Amount (Rs.)
		<u>Material</u>			
1	MR	Flood Light	1.00 No.	8,800	8,800
					Total. 8,800
2		Carriage & Installation Charges			276.25
					Total. 9,076
		Contractor's Profit on item No. (1&2)	20 %		1,815
		Total			10,892
		<u>ITEM RATES</u>			
		Composite rate Per Each			Rs. 10,891
		Say			Rs. 10,900

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 Deputy Municipal Officer (I.S.)
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 Sub Engineer
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**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB
 RATE ANALYSIS**

Description

supply, installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect

Sr. No.	Ref	Detail	Unit Rate (British System) per Each		
			Qty	Rate Per Unit	Amount (Rs.)
		<u>Material</u>			
1	MR	Ceiling Fan	100 No	5,525	5,525
				Total.	5,525
2		Carriage & Installation Charges			276.25
				Total.	5,801
		Contractor's Profit on item No. (1&2)	20 %		1,160
		Total			6,961
		<u>ITEM RATES</u>			
		Composite rate Per Each		Rs.	6,961
		Say		Rs.	7,000



(Signature)
 Municipal Committee
 City of Mohali

(Signature)
 Municipal Committee

(Signature)
 Sub Engineer
 M.C. Mohali