

GOVERNMENT OF SINDH



COMPOSITE
SCHEDULE OF RATES
2024

ENFORCED FROM

30TH MAY, 2024

STANDING RATES COMMITTEE SINDH, KARACHI

Message of Chief Minister, Government of Sindh

The development refers to measures of economic growth, social welfare and the level of modernization within a society, culture, nation or region against a chosen standard. Infrastructure is the main component of development which provides the basic physical and organizational structures and facilities e.g. buildings, roads, water & sanitation and power supplies needed for the operation of a society or enterprise. In this context, the need for defining standards and specifications for developing new infrastructure and rehabilitate the existing infrastructure cannot be undermined.



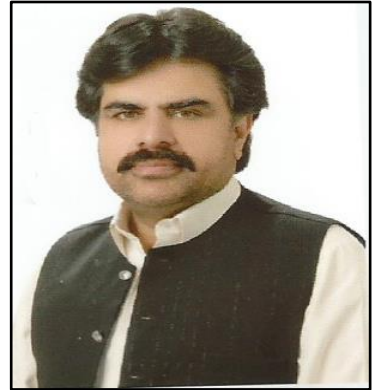
Government of Sindh is committed to serve the masses of the province through execution of development schemes in various sectors of economy. It was concerning to note that the Schedule of Rates, which is prerequisite for estimation of project costs and engineer's estimates was not revised since 2012. Keeping in view the feedback from both public and private sectors, the government reconstituted the Standing Rates Committee (SRC) in 2021. Since then the SRC has done commendable job to provide interim reliefs for material cost.

The publication of this CSR 2024 document would not have been possible without tireless efforts rendered by the SRC team, consulting firm, engineers / professionals of Nation Building Departments and other stakeholders. The supervisory role of Minister and Chairman Planning & Development Board was exemplary and helped to improve the final product. I congratulate all the stakeholders who were instrumental in producing this valuable document for the use of Nation Building Departments, project authorities, engineers, consultants and contractors.

**Syed Murad Ali Shah
Chief Minister,
Government of Sindh**

Message of Minister for P&D, Government of Sindh

The Standing Rates Committee (SRC) since its inception in 1972 was housed in Finance Department, Government of Sindh. However, in 2021 the SRC was reconstituted with more diverse representation from all the relevant departments. More importantly, the chair of this important committee was entrusted with Member Energy & Infrastructure of Planning & Development (P&D) Board, Government of Sindh. In my opinion, this was a right and timely approach as P&D Board being the custodian of development approvals and planning has a close association with other Nation Building Departments, federating units as well as development partners.



The SRC since its reconstitution in 2021 has worked hard and has been able to produce this valuable and useful document. The guidance of Chairman P&D to the SRC, supervision of Chairman SRC / Member Energy & Infrastructure, P&D Board, technical working of consultant and feedback of National Building Departments were key to bring this document in present shape. The publication of this document will not only bring the material and composite rates at par with existing market prices but also result in fulfilling the demands from various quarters for updation of the schedule pending since 2012. I hope that the SRC team will continue the good work and digitize this document to make it more user friendly.

In the end, I will again congratulate all those who put their efforts especially P&D Board, SRC team and the consulting team to realize the updation of Schedule of Rates.

**Syed Nasir Hussain Shah,
Minister for Planning & Development,
Government of Sindh**

FOREWORD

Infrastructure development in public sector includes construction and improvement of all essential systems and facilities that allow the smooth flow of an economy's day to day activities and enhance the people's standard of living. It includes basic facilities such as roads, water supply, buildings, electricity and telecommunication. The hard infrastructure relies on supply of materials, equipment, wages for manpower and transportation.



The Standing Rates Committee (SRC) of Government of Sindh has been notifying rates of essential materials, equipment, mechanical / electrical items and wages since 1976. The latest reconstitution of SRC was approved through a summary to Chief Minister Sindh on 17th May 2021. Since then SRC has notified interim relief for basic items of buildings, highways and public health engineering.

It is a great honour for Planning & Development Department to host SRC for revision of Composite Schedule of Rates (CSR). I congratulate the SRC team headed by Member Energy & Infrastructure, Planning & Development Board for their untiring efforts and dedication to make it possible despite their regular official engagements. This was especially more tedious task as the last revision of CSR took place way back in 2012. In this context, the SRC had to ensure incorporating inflation factor for materials price as well as account for new construction materials, techniques and technologies.

It is worth mentioning here that during the process of CSR revision, SRC, Nation Building Departments and P&D Department worked in synch for counterchecking the data. SRC kept P&D Board updated about the work being done by them and incorporated input provided. I am sure that the final version of the new CSR is an improved product and will be beneficial to all the concerned.

In the end, I am pleased to share with you the revised CSR 2024 & BSR 2024 which will facilitate all Nation Building Departments of public sector in particular and the private sector in general. I am sure that the present SRC team will ensure timely revision of new CSR in future with the help of digital technologies.

**Najam Ahmed Shah,
Chairman,
Planning & Development Board,
Government of Sindh**

PREFACE

Standing Rates Committee (SRC) is responsible to prepare Composite Schedule of Rates (CSR), notify amendments in CSR, define specifications and add & delete materials from time to time in the light of market rates. The SRC was established in 1972 by Government of Sindh under the chairmanship of Additional Secretary, Finance Department and the 1st Schedule of Rates was published by SRC in May 1976. The latest reconstitution was approved by the Chief Minister Sindh in May 2021. The reconstituted SRC is now chaired by Member Energy & Infrastructure, Planning & Development Board, Government of Sindh.



After reconstitution, the SRC started working in October 2021. The Technical Committee of SRC was constituted in January 2022. Keeping in view the impact of inflation, the SRC notified interim reliefs in 2021, 2022 and 2023 on material cost of items relating to building, highways and WASH sectors. In March 2023, composite rates of selected items of highways sector were revised with the approval of Provincial Cabinet. However, the main task for SRC was to update the CSR which was last revised in 2012. The CSR 2022 and BSR 2022 were notified on 7th July 2022, however, the same were withdrawn in August 2022 for the want of improvement and corrections.

The SRC hired the services of an experienced consulting firm Techno-Legal Consultants (TLC) in July 2023 for improving and updating the version of CSR withdrawn in 2022. The firm started its working in collaboration of SRC, its Technical Committee and the Nation Building Departments in July 2023. The first draft of BSR and CSR were prepared and shared by TLC in November 2023. Since then, these documents have been updated on the basis of feedback received from all stakeholders. The rates of BSR and CSR have also been compared with rates of Government of Punjab and NHA. After approval from SRC and P&D Board, the CSR 2024 and BSR 2024 have been approved by Provincial Cabinet for notification. In future, the SRC aims to digitize the Schedule of Rates and update it regularly.

The completion of this task could never materialize without the support of Chairman P&D Board, Members of Board, SRC / Technical Committee Members, Consultant's team, the Chief Engineers and engineering teams of Nation Building Departments. I thank them all for their continuous support and hope that the final document serves its requisite purpose.

Dr Gul Mohammad Laghari
Chairman SRC / Member Energy & Infrastructure,
Planning & Development Board,
Government of Sindh

REPORT OF CONVENOR TECHNICAL COMMITTEE **OF STANDING RATES COMMITTEE**

Government of Sindh reconstituted the SRC vide SGA&CD Notification # SO(C-IV)/SGA&CD/4-2/FD/21 dated 31st August 2021. The SRC was made more inclusive and Member Energy & Infrastructure (E&I), Planning & Development Board, Government of Sindh was nominated as its Chairman. In order to assist the SRC, a Technical Committee (TC) of SRC was notified on 7th January 2022. It is an honour for me to head the esteemed Technical Committee of the SRC for coordination with National Building Departments for their valuable input.



It is relevant to mention that study, analysis and consultation required for revision of schedule of rates is time consuming task. Hence the Technical Committee in the end of 2022 recommended to SRC for providing interim reliefs on major material items. The SRC after due diligence approved interim reliefs on important items relating to building, roads / highways and Public Health Engineering in December 2021 and February 2022.

The Technical Committee ably assisted the SRC and in July 2022 the Basic Schedule of Rates (BSR) and Composite Schedule of Rates (CSR) were notified. The BSR and CSR were generally well received, however, owing to observations from certain quarters, the same were later withdrawn and interim relief on 129 items was approved and notified by Provincial Cabinet in October 2022.

The updation of CSR again started in May 2023 and a consultant firm Techno-Legal Consultants (TLC) were hired. The BSR 2024 and CSR 2024 were finalized after detailed working in collaboration with National Building Departments. The Provincial Cabinet approved the new BSR and CSR on 30th May 2024, which will serve as a necessary basic documents to undertake public sector civil work projects.

The valuable input provided by Chief Engineers, Superintending Engineers and other relevant engineers / officers from Works and Services Department, Local Government Department, Irrigation Department, Public Health Engineering Department, Education Department, Planning & Development Department, Finance Department, KDA, KMC, KWSC and NED University of Engineering & Technology Karachi helped to improve the quality of this document. In the end I would like to acknowledge the assistance provided to me by each and every member of my team at School Education & Literacy Department for accomplishing this task.

Engineer Hassan Askari,
Convener Technical Committee of SRC /
Chief Engineer, School Education & literacy Department,
Government of Sindh

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13	Schedule of Rates for Public Highways Works, Finished Items Volume-III, Part IV Sixth Edition-2024. Publication No.66	211-227
14	Schedule of Rates for Electrical Works, Finish Items Volume-III, Part-V Third Edition 2024 Publication No.67	228-249

COMPOSITION OF STANDING RATES COMMITTEE SINDH

- 1 Dr. Gul Mohammad Laghari**
Chairman Standing Rate Committee Sindh,
Member (Energy & Infrastructure),
Planning & Development Board,
Government of Sindh.
- 2 Mr. Aamir Shaikh**
Chief PP&H-I
Planning & Development Board,
Government of Sindh.
- 3 Mr. Gulam Murtaza Abro**
Chief Communication,
Planning & Development Board,
Government Of Sindh.
- 4 Syed Hasan Askari**
Chief Engineer,
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Government of Sindh Karachi.
- 5 Mr. Abdul Samad Jamlaney**
Chief Engineer,
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- 6 Mr. Barkat Ali Khowaja**
Chief Engineer (Dev),
Public Health Engineering Depatment.
Sukkur
- 7 Mr. Arshad Hussain Bhutto**
Chief Engineer Buildings,
Works & Services Department, Sindh
Karachi.
- 8 Mr. Zafar Ali Palijo**
Chief Engineer, WTM Project,
Karachi Water & Sewerage Corporation
- 9 Mr. Shoaib Ahmed Sugrio**
Superintending Engineer,
Fresh Water in Arid Zone in Sindh Hyderabad
Irrigation Department, Government Of Sindh.

- 10 Mr. Asadullah Shaikh**
Superintending Engineer,
Police Works, Sindh @ Karachi.
- 11** Superintending Engineer,
Local Govt Depatment,
Government of Sindh.
- 12 Mr. Yousuf Iqbal**
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Traffic Engineering Bureau,
Karachi Development Authority.
- 13 Mr. Syed Wasiuddin**
Director Works & Services,
NED University Of Engineering and Technology Karachi.
- 14 Mr. Khurram Mughal**
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Project Implementation Unit,
Hyderabad - Mirpur Khas Dual Carriage Way Project,
Hyderabad.
- 15 The Deputy Secretary (Dev-II),**
Finance Department,
Government of Sindh Karachi.

COMPOSITION OF TECHNICAL COMMITTEE OF SRC

- 1 Syed Hasan Askari**
Chief Engineer,
School Education & Literacy Department,
Government of Sindh Karachi.
- 2 Mr. Zafar Ali Palijo**
Chief Engineer, WTM Project
Karachi Water & Sewerage Corporation
- 3 Mr. Muhammad Yousuf Bhutto**
Superintending Engineer,
Provincial Building Circle (Health Works),
Government of Sindh Karachi.
- 4 Mr. Ghous Bux Abbasi**
Project Director,
Commissioner Office Karachi
Government of Sindh Karachi.
- 5 Mr. Sabir Ali Memon**
Director Technical (O & M),
Public Health Engineering Department,
Hyderabad.
- 6 Mr. Khalil Ahmed**
Executive Engineer, (Co-opt Member)
School Education & Literacy Department,
Government of Sindh Karachi.
- 7 Mr. Shah Nawaz Hamirani**
Assistant Director,
Emergency Flood Assistance Project (EFAP),
Works & Services Department,
Government of Sindh Hyderabad.
- 9 Mr. Khalid Shakoor**
Assistant Engineer, (Co-opt Member)
School Education & Literacy Department,
Government of Sindh Karachi.

CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY
<u>LENGTH</u>		
		25.4
Inch	Millimeter	0.0393701
Millimeter	Inch	0.3048
Foot	Meter	3.28084
Meter	Foot	0.9144
Yard	Meter	1.609344
Meter	Kilometer	0.621371
Kilometer	Mile	1.524
Canal Mile (5000 Feet)	Kilometer	0.656168
Kilometer	Canal Mile	57.15
Girah	Millimeter	
Mile International		
nautical (6076.12 feet)	Meter	1852
Mile UK nautical (6080 feet)	Meter	1853.18

MASS WEIGHT

Pound	Kilogram	0.45359237
Kilogram	Pound	0.2046
Ounce	Gram	28.3495
Gram	Ounce	0.035274
Quintal	Kilogram	100
Grain	Milligram	34.7989
Hundred Weight	Kilogram	50.8023
Tonne	Hundred Weight	19.6841
Ton	Kilogram	1016.0469

MASS WEIGHT

Ton	Tonne	1.0160469
Tonne	Ton	0.98142065
Seer	Kilogram	0.9331
Maund	Kilometer	3.7324
Tola	Gram	11.664
Short	Tonne	0.907185

CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY
<u>AREA</u>		
Square Inch	Square Millimeter	645.16
Square Millimeter	Square Inch	0.00155
Square Foot	Square Meter	0.092903
Square Meter	Square Foot	10.7639
Square Yard	Square Meter	0.836127
Square Meter	Square Yard	1.09599
Acre	Square Meter	4046.8564
Acre	Hector	0.40468564
Hectare	Acre	2.47105
Hectare	Square Meter	10000
Square Mile	Square Kilometer	2.58999
Square Kilometer	Square Mile	0.386102
Square mile	Hectare	258.99908
Hectare	Square Mile	0.00386102

<u>CAPACITY VOLUME UP</u>		
<u>MODULES OF SECTION</u>		0.568261
Paint (UK)	Liter	
Gallon	Liter	4.54609
Liter	Liter	28.3168
Cubic Foot	Liter	1000
Liter	Cubic Foot	0.0353147
Cubic Inch	Millimeter	16.3871
Fluid Ounce	Millimeter	28413
Liter	Gallon (Imperial)	0.219969
Cubic Inch	Cubic Millimeter	16387.1
Cubic Foot		
Cubic Meter	Cubic Meter	0.0283168
Cubic Yard	Cubic Foot	35.3147
Cubic Meter	Cubic Meter	0.764555
Acre Foot	Hectare Meter	0.123348

CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY
<u>VELOCITY AND SPEED</u>		
Foot per Second	Meter per Second	0.3048
Foot Per Minute	Meter Per Second	0.00508
Foot Per Second	Kilometer Per Hour	1.09728
Kilometer per Hour	Foot Per Second	0.911344
Mile Per Hour	Meter per Second	0.44704
Kilometer Per Hour	Mile Per Hour	0.621371
Mile Per Hour	Kilometer Per Hour	1.609344
<u>FORCE</u>		
Kilogram Force	Newton	0.80665
Pound Force (avoirdupois)	Newton	4.44822
Ton Force	Kilo Newton'	9.96402
Newton	Pound Force	0.224809
Kilo Newtown	Ton Force	0.100361
<u>FORCE PER UNIT LENGTH</u>		
Pound force Per Foot	Newton Per Meter	14.5939

<u>PRESSURE, STRESSES AND MODULES OF ELASTICITY(1PA=IN/M²</u>		
Pound force per square foot	Pascals	47.8803
Pound force square inch	Kilo Pascals	6.89476
Ton force per square inch	Kilo Pascals	107.252
Kilo Pascals	Pound Force Per Square inch	208354
Ton force per square inch	Mega Pascals	15.4443
Mega Pascals	Pound Force Per Square inch	145.038
<u>MESS PER UNIT LENGTH</u>		
Pound Per foot	Kilogram Per Meter	1.48816
Kilogram Per meter	Pound Per Foot	0.671969
Ton Per Mile	Ton Per Kilometer	0.631342

CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY
<u>MASS PER UNIT AREA</u>		
Ton Per Square Mile	Kilogram Per Square Kilometer	392.298
Pound Per Square Foot	Kilogram Per Square Meter	4.88243
Kilogram Per Square meter	Pound Per square foot	0.20816
<u>MASS PER UNIT VOLUME</u>		
Pound Per cubic foot	Kilogram Per cubic Meter	16.0185
Pound Per cubic Foot	Grams Per liter	16.01485
Kilogram Per cubic meter	Pound Per cubic foot	0.062428
Grams Per Liter	Pound Per cubic foot	0.062428

<u>VOLUME RATE OF FLOW</u>		
Cubic Foot Per Second (Cusec)	Cubic meter per Second(cusec)	0.0283168
Cubic foot Per second (Cusec)	Liter per Second	28.3168
Gallon Per Minute	Liter per Second	0.075682
Cubic foot per thousand acres	Liter Per hectare	0.06997
Cubic foot per thousand acres	Cubic Meter Per Square	0.006997
<u>FULE CONSUMPTION</u>		
Gallon Per Mile	Liter Per Kilometer	2.825
Mile Per Gallon	Kilometer Per Liter	0.354
<u>MOVEMENT OF FORCE</u>		
<u>TORQUE</u>		
Pound force foot		
Pound Force inch	Newton Meter	1.35582
Ton force Foot	Newton meter	0.112985
Ton Force inch	Kilo new ton meter	3.03703
	Kilo new ton meter	0.25309

CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY
<u>SECOND MOMENT OF AREA</u>		
Inch ⁴	Millimeter	46231
<u>PLANE ANGLE</u>		
Degree	Radian	0.0174533
<u>WORK, ENERGY POWER (1j=1Ws)</u>		
Kilowatt hour	Kilo Joule	3600
Foot Pound force	Joule	
Horse power	Kilowatt	0.7457
Horse power	Kilogram Force meter Per Second	76.0402
For exact values, please consult Standard Hand Books		

ABBREVIATIONS

USED IN THE FOLLOWING SCHEDULE SYSTEM INTERNATIONAL

SYSTEM IMPERIAL	Running Foot	
Running Foot	Rft Millimeter	Mm
Square Foot	Sft Centimeter	Cm
Cubic Foot	Cft	Running Meter Rm
Pound	Lb	Square Meter Sqm.
Ounce	Oz	Cubic Meter Kg
Pounds per square inch	PSI	Kilogram Kg
Gross	Grs	Newton per milimeter square N/mm2
Maund	Mnd	Hudred Hund
Dozen	Dz	

CONVERSION TABLE

In the case of earth work measurement where extra lead is to be paid for lift, the method will be as follows :-

The lift will be measured from the centre of gravity of the excavated earth to that of placed earth. This will constitute the mean lift for the section.

When earth has to be carried over a spoil bank and dumped beyond in the mean lift would be the difference in level between the centre of gravity of the excavated earth and the top of the spoil bank the dowel.

The equivalent leads for various mean lifts are given below.

Lift in feet	Conversion factor	Equivalent Horizontal Leads in feet
1	1' lift 8' lead	8
2	1' lift 8' lead	16
3	1' lift 8' lead	24
4	1' lift 8' lead	32
5	1' lift 10' lead	50
6	1' lift 10' lead	60
7	1' lift 10' lead	70
8	1' lift 10' lead	80
9	1' lift 11' lead	99
10	1' lift 12' lead	120
11	1' lift 13' lead	143
12	1' lift 14' lead	168
13	1' lift 15' lead	195
14	1' lift 16' lead	224
15	1' lift 17' lead	255
16	1' lift 18' lead	288
17	1' lift 19' lead	323
18	1' lift 20' lead	360
19	1' lift 21' lead	399
20	1' lift 22' lead	440
21	1' lift 23' lead	483
22	1' lift 24' lead	528
23	1' lift 25' lead	575
24	1' lift 26' lead	624
25	1' lift 27' lead	675
26	1' lift 27' lead	702
27	1' lift 27' lead	729
28	1' lift 27' lead	756
29	1' lift 27' lead	783
30	1' lift 27' lead	810

These conversion factor also incorporate allowance for extra lead due to cross lead with a view to ensure a uniform system. The equivalent lead will be added to the horizontal lead to get the total lead to be paid for the exact site or R.Ds. Between which extra lead is to be given must be recorded in the column of detailed measurements in the Measurement Book.

INTRODUCTION TO THE SCHEDULE OF RATES (COMPOSITE) FOR FINISHED ITEMS OF WORKS 2024

1. The Standing Rates Committee Sindh introduces the Schedule of Rates General for Finished Items of works Volume III part I to V, 2024 replacing the same publication of 2012. It gives a broad base to all the departments for framing the detailed estimates of works. Composite item rates of material and labour are subject to revision from time to time.
2. All the estimates shall be based on the rates provided in this Schedule. Any variation/deviation from this course should be taken care of in accordance with the revision of various department codes and instruction of the Government issued from time to time.
3. Further adoption of this Schedule should be in line with the Delegation of Financial Rule 1962 as corrected from time to time and the instructions of the Finance Department.
4. No lead small or long for carnage of material for items as per this Schedule is to be paid separately. However provision for the cost of Carriage of materials from a predetermined nearest sources of supply may be made in the estimates.
5. In case of works of specialized nature costing more than Rs. 10.00 million, the nation Building departments should ideally follow the schedule of rates / specification. However, in case the specification / rates need to be changed then the same may be prepared by the chief Engineer and prior permission shall be obtained from the Secretary / head of the department with strong justification.
6. Again approval of heads of departments shall be obtained to approve specification and rates of competitive bids even for works of specialized nature costing less then Rs. 10.00 million before the works are allowed to be executed.
7. All works shall be executed by adopting composite rates as per this Schedule and material shall be produced by the contractor on their own except in the following cases:-
 - i. Where Government stores are available and useable.
 - ii. No replenishments shall be made in the Department Stores.
 - iii. Where the stores / materials required in the work are not available to the contractor in the market.
 - iv. In case of emergency the Head of the Department may decide for acquiring material for the work.
 - v. In case of works to be executed by the Department labour.

8. The following instructions are laid down for the guidance of all concerned:

1) Special allowances, for hardness, wetness slush:

Special instructions regarding powers of sanction for such allowances are required to be issued by the various administrative departments and statutory bodies in order to facilitate smooth execution of works.

2) Deduction for shrinkage, from the bank measurements:-

To unify the various formulae now being followed in different parts of the province and to standardize instructions on the subject, the following allowances should be provided for:-

a) Deduction for shrinkage from the bank measurement when the earth work is done by the manual labour.

(Men & Donkey & Drag-lines.....10%)

b) Deduction for settlement from the bank measurement when the earth work is done by machines.

(Tractor, Scrapers etc.....5%)

c) Before the work is let out to be done by tractors, scrapers etc. an addition of 5% may be mentioned and mutually agreed to.

3) Sanction of Non-Schedule Items: - The none-Schedule items will not cease to crop up even after the introduction of the Schedule of Rates for Finished items of works, or any other Schedule of Rates to come thereafter, with the modern trend of adoption of more scientific methods of construction. Non-Schedule items in all the Engineering Fields are unavoidable. Hence the Superintending Engineers and the Chief Engineers of the Departments may sanction the Rate Analysis for non-schedule items up to Rs. 2000/- per standard unit and the rates exceeding this amount shall be sanctioned by the Chief Engineer/Officers exercising power of Chief Engineer.

4) Insufficient rate of certain Schedule items: - The Schedule of Rates may be found inadequate to carry out certain items of works. In such cases, the only competent body to review the position is the Standing Rates Committee, All such cases should therefore, be referred to the Secretary, Standing Rates Committee for decision of the Committee.

GOVERNMENT OF SINDH



SCHEDULE OF RATES(GENERAL) **FOR FINISHED ITEMS OF WORKS**

VOLUME-III PART-I

SEVENTH EDITION 2024

PUBLICATION NO. 63

SCHEDULE OF RATE (GENERAL)
(FOR FINISHED ITEMS OF WORKS)
VOLUME-III, PART-I
SEVENTH EDITION-2024
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CHAPTER NO: 1**EARTH WORK****(EXCAVATION AND EMBANKMENT)**

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
1	Earth work excavation undressed lead upto a single throw of Kassi Phawrah or shovel.				17.1 to 17.5 whichever	
	(a) In Ashes, sand, soil or silt clearance.	P.Cft.	4.95			
	(b) In ordinary soil.	P.Cft.	5.94			
2	Earth work excavation in ashes, sand soft soil or silt clearance undressed lead upto 50 ft. (15 metre)	P.Cft.	7.45		Do	
3	Borrowpit excavation undressed lead upto 100 Cft.				Do	Requiring repeated blows of Kassi to break it. No payment for hardness to be made, if the dry density is less than 1.5
	(a) Ordinary or Soil	P.Cft.	7.29			
	(b) Hard Soil.	P.Cft.	8.08			
4	Excavation in shingle or gravel foundation and rock , not, requiring blasting undressed , lead upto 100 ft.				Do	
	(a) Dry Soil	P.Cft.	26.93			
	(b) Wet Soil	P.Cft.	30.89			
	(c) In flowing water.	P.Cft.	39.85			
5	Earth work excavation in irrigation channels, drains etc, dressed to designed section grades and profiles excavated material disposed off and dressed within 50 ft. (15 metre) lead.				17.1 to 17.5 whichever is applicable.	
	(a) Ordinary Soil	P.Cft.	7.92			
	(b) Hard Soil.	P.Cft.	10.14			
	(c) Very Hard Soil	P.Cft.	11.88			
	(d) Shingle and gravel formation.	P.Cft.	20.60			
6	Excavation in rock, dressed to designed section, grades and profiles, excavated material disposed off within 100 ft. (30 metre) and lift upto 5 ft.				Do	Tools and plants shall be liabilities of the contractor.
	(a) Soft rock, slate, Schist or laterite work with pick and crow bar.	P.Cft.	26.14			
	(b) Medium hard rock requiring occasional blasting.	P.Cft.	41.41			
7	(a) Excavation in hard rock requiring blasting and disposal of excavated material (blasted material) upto 50 ft. lead (including dressing and levelling to designed section etc, complete.				17.1 to 17.5	1.Tools and plants shall be liabilities of the contractor.
	(a) Grade I	P.Cft.	25.00	25.70		2. Reduce the rate by 8% if the excavated section is not dressed or levelled designed to section.
	(b) Grade II	Do	26.71	27.88		
	(c) Grade III	Do	32.28	33.68		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(d) Grade IV	Do	36.63	38.27		
	(e) Grade V	Do	40.30	42.17		
	(f) Grade VI	Do	43.66	45.77		
7	(b) Excavation in hard rock requiring blasting but blasting prohibited and disposal of excavated material within 50 ft. . Lead (including dressing and levelling to designed section etc, complete.				17.1 to 17.5 whichever is applicable.	Add 100 percent to the rate as applicable in (a) above.
	(a) Grade I	P.Cft.	43.75	45.16		
	(b) Grade II	P.Cft.	48.83	49.09		
	(c) Grade III	P.Cft.	56.49	59.30		
	(d) Grade IV	P.Cft.	64.11	67.39		
	(e) Grade V	P.Cft.	68.51	72.25		
	(f) Grade VI	P.Cft.	76.34	81.18		
8	Extra for every 50 ft. additional lead or part thereof.				Do	This rate shall apply to lead upto half mile, when the lead is more than half mile the lead shall be paid as carriage of material by mechanical means.
	(a) For earth work (Soft, ordinary, hard and very hard.	P.Cft.	0.12			
	I) Earth work excavation in ashes sand soft soil or silt lead 500 ft. (150 metres).					
	(b) For gravel, shingle or rock.	P.Cft.	0.14			
9	Rehandling of earth work.				Do	
	(a) Lead upto a single throw of Kassi, Phawrah or a = Shovel.	P.Cft.	3.33			
	(b) Upto a lead of 50 ft. (15 metre)	P.Cft.	4.44			
10	Rehandling of gravel work or excavation rock lead upto 50 ft.(15 metre).	P.Cft.	12.67		Do	
11	Dressing and levelling of earth work to designed section, etc. complete.				Do	
	(a) Ashes, sand, silt or soft soil	P.Cft.	0.43			
	(b) Ordinary or hard soil.	P.Cft.	0.82			
	(c) Gravel work or soft rock (not requiring blasting.)	P.Cft.	1.90			
12	Dowel dressing.	Per Chain	396.07		Do	This rate is in addition to payment for dressed earth work.
13	Earth work compaction Compaction of earth work (Soft, ordinary or hard soil).				17.1 to 17.5 whichever is applicable.	
	(a) Laying earth in 6" layers levelling and dressing complete.	P.Cft.	1.27			
	(b) Laying earth in 6" layers levelling dressing and watering for compaction etc. complete.	P.Cft.	1.58			
	i) Soft or sandy soil	P.Cft.	1.66			
	ii) Ordinary soil	P.Cft.	1.92			
	iii) Hard soil	P.Cft.	2.29			

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	iv) Admixture of shingle	P.Cft.	2.49			
	(d) Ramming earth work (All types of soil).	P.Cft.	1.74			
	(e) Ramming earth work behind retaining wall.	P.Cft.	2.22			
14	Extra for Puddling.	P.Cft.	6.89			
15	Extra for wet earth work.	P.Cft.	4.75		Do	That will support a man's weight.
16	Earth for slush or Daldal including dewatering.	P.Cft.	9.51		Do	This will not support Man's weight The grant of allowance will be subject to S.E discretion.
17	Earth work on small rain water drains, along canal banks, roads and plantation drains, dressed etc. complete.	P.Rft	12.67		Do	
18	Excavation in foundation of Building Bridges and other structures including dagbelling dressing, refilling around structure with excavated earth Watering and ramming lead upto 5 ft. , lead upto one chain (30 metre) and lift upto 5 ft. (1.5 metre).					
	(a) In sand, ashes or loose soil.	P.Cft.	10.30		17.1 to 17.5 whichever is	
	(b) In ordinary soil.	P.Cft.	11.88			
	(c) In hard soil or soft murum.	P.Cft.	11.88			
19	Cutting hard rock such as granite, ballast, hard lime stone or sand stone etc. with chisels and hammers for small foundations.	P.Cft.	101.20	118.60	Do	Tools and plants required shall be the liabilities of contractor.
20	Extra for excavation requiring shoring.	P.Cft.	1.67	2.30	Do	Composite rate includes material I.e planks etc.
21	Filling, watering and ramming earth in under floors with surplus earth from foundation etc. lead upto one chain and lift upto 5 feet.	P.Cft.	6.50		Do	
	with Surplus earth from foundation etc.					
22	Filling, watering and ramming earth under floor. with new earth (Excavated from outside) lift upto 5 ft and lead upto 10 miles including cost of earth.	P.Cft.	19.01	47.02	Do	
23	Filling and compacting, earth and boulders behind retaining walls (including excavation of soil and lead upto 50 ft.	P.Cft.	12.67		Do	
24	a) Dressing slopes of banks or ground surface. (to be paid only when exclusively dressing is done and no earth work is carried out in embankment or cutting).	P. Sft.	19.80		Do	To be paid only when exclusively dressing done and no earth work is carried out in embankment
25	Dag belling 3" deep.	Per Mile	4950.93		17.1 to 17.5 whichever is	Dag belling for layout borrow pit is to be done by contractors a their own cost.
26	Dag belling 9" wide and 6" deep in all types of soil except in rocks (For Rly.)	P.Rft.	3.96		Do	
27	Supplying grass Trufing slopes of banks or lawns with grass side including ploughing laying, manuring, setting and watering (Turf got from within a distance of 5 miles maintenance for 45 days.	P.Sft.	41.19	60.50	Do	
28	Berm cutting.					

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(a) Lead upto a single throw of Kassi Phawrah or shavel.	P.Cft.	6.34			
	(b) Upto 50 feet.	P.Cft.	11.49			
29	Berm Trimming both sides. of channels.					
	(a) upto 3.50 feet (1 metre) depth.	Per Mile.	16001.40			
	(b) Channels from 3.5 ft. to 5ft depth	Per Mile.	22497.02			
	(c) Channels from 5ft. To 8ft depth	Per Mile.	34014.86			
30	Ploughing and levelling borrowpits (area to be measured).	Per Acre	6499.42		Do	
31	Making boundary or servivce roads including dagbeliing in unploughed land (extra Rs.2 may be paid for ploughed)					Note Extea Rs. 10.10 may be paid for ploughed land.
	(a) From 10'ft to 20'ft	Per chain	1742.73		Do	
	(b) From 21' 20ft to 40' ft wide.	Do	2328.92		Do	
32	Earth work by boat including hire of boats (for ordinary soil)	P.Cft.	10.30		Do	For ordinary soil.
	(b)Carriage by boat upto 10 Chains Labour for 100 Cft (Capacity of Boat is 200 Cft 15 Trips in a day/ Rate for one Trip	P.Cft.	2.53			
	(c) Extra for distance beyound 10 chains	P.Cft.	0.25			
	(d) Unloading earth from boat.	P.Cft.	4.52			
33	Unloading earth from B.G trucks and clearing upto 5 ft. From Rail.	P.Cft.	4.04		17.1 to 17.5 whichever is	
34	Earth work by tramway digging and loading of Truck with 50 Ft. Lead.	P.Cft.	9.19		Do	
35	Unloading earth from B.G trucks and spreading upto 15 ft.	P.Cft.	7.53		Do	
36	supply of clean and screened pit of river with in 5 Chain including removal of top crest of earth or over burden and Royalty to the Government or Cost to the private owner.	P.Cft.	9.63	12.80	Do	The rate includes. (I) Removal of top crust of earth or over burden and screening. (ii) Royalty to the Government or cost to the Private owner,

CHAPTER NO: 2
DISMANTLING (DEMOLITION)

Notes

- 1 For handling of all types of material for short lead, including carriage upto 3 chains, nothing is to be paid as extra, where handling and carriage involves an extra lead beyond 3 chains carriage for whole of the distance shall be provided in the estimates.
- 2 Rates for all finished works include the removal of surplus debris un-used material and by-product.
- 3 The rates for dismantling roofs or upperstorey floor, include the dismantling of all materials, except roof supports, such as beams and trusses.
- 4 The rates include the cost of scaffolding and its removal.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

STONE WORK.

1	Dismantling dry stone masonry	P.Cft	11.09		18.10	
2	Dismantling - stone masonry in mud mortar.	Do	15.84		18.10	
3	Dismantling stone-masonry is lime or cement.	Do	39.61		18.10	
4	(a) Dismantling dry stone spawl pitching.	Do	19.80			Add Extra 13% 32% & 51% on labour rate only for 2nd 3rd, 4th, and subsequent floor respectively against item 3; 12,13,14,15,17,19,20,22,25,26,29,30,31,33,34,35,36,37,40,41,42,50,52,53,54, &55,
	(b) Dismantling stone or (spawl) pitching mud grouted.	Do	25.35		18.10	
5	Dismantling stone or (spawls) pitching and apron in silted condition.	Do	34.85		18.10	
6	Dismantling stone pitching (spawls) cement or lime grouted.	Do	52.28		18.10	
7	Dismantling stone in crates.					
	(a) Wooden crates	Do	26.93			
	(b) Wire cates.	Do	34.85			
8	Dismantling stone ware drain Including base concrete.	Do	19.01		18.10	

BRICK WORK.

9	Dismantling mud /pise walling.	P.Cft.	6.89		18.10	
10	Dismantling sun dry brick masonry.	P.Cft.	17.43		18.10	
11	Dismantling dry brick masonry.	P.Cft.	11.88		18.10	
12	Dismantling brick work in mud mortar.	P.Cft.	23.76		18.10	Same as at item No. 3.
13	Dismantling brick work in lime or cement mortar.	P.Cft.	59.41		18.10	Do
14	dismantling cement block masonry.	P.Cft.	50.70		18.10	Do
15	Dismantling Dhajjo Walling.	P.Sft.	13.94		18.10	Do

CONCRETE.

16	Dismantling mud concrete.	P.Cft.	26.93		18.10	Do
17	Dismantling lime concrete.	P.Cft.	36.44			
18	Dismantling lime or concrete. Concrete under water.	P.Cft.	142.59		18.10	Do
19	(a) Dismantling cement concrete plain 1: 4: 8.	P.Cft.	68.12		18.10	Do

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(b) Dismantling cement concrete plain 1: 3: 6.	P.Cft.	87.14			
	(c.) Dismantling cement concrete plain 1: 2: 4:	P.Cft.	133.08			
	(d) Dismantling cement with brick aggregate.	P.Cft.	42.75			
	(e) Dismantling D.P.C of cement concrete 1-1/2" thick and clearing the site etc.	P.Cft.	21.39			
20	Dismantling cement concrete reinforced separating reinforced cement from concrete cleaning and straightening the same.	P.Cft.	229.72		18.10	Do
21	Dismantling sirki sakanda or thatched roofing supported on battens or ballies.	P.Sft.	7.92		18.10	Do
22	(a) Dismantling 1st Class tile roofing.	P.Cft.	21.39		18.10	
	(b) Dismantling 2nd Class tile roofing.	P.Cft.	15.84		18.10	
23	Dismantling from any height asbestos sheets and ridge coping.	P.Cft.	11.19		18.10	
24	(a) Dismantling roof of wooden planks and battens from only height.	P.Sft.	8.32			
	(b) Dismantling wooden ceiling above 6m 20 ft. height in difficult position including lifting with care and special scaffolding along live electric wires and with machines underneath.	P.Sft.	35.25		18.10	
25	Dismantling jack arch roofing including removal of joints.	P.Cft.	27.73		18.10	Same as at item No. 3.
26	Dismantling R.B roof complete with mud and mud plaster including separating reinforcement cleaning and straightening	P.Cft.	34.06		18.10	
27	Dismantling full or half sleeper roof.	P.Sft.	15.84		18.10	
28	(a) Stripping and stacking slates or tile from the truss roofing.	P.Sft.	16.64		18.10	
	(b) stripping and stacking (C.I sheet) roof.	P.Sft.	15.25		18.10	
	(c.) Extra for dismantling C.I sheet roof above 20' in height in difficult position including lifting with special scaffolding along live electric wire with machine underneath.	P.Sft.	17.62		18.10	
29	Dismantling slates or tiles including battens purling and planking.	Do	25.35		18.10	
FLOORING.						
30	Dismantling brick or flagged flooring without concrete foundation.	P.Sft.	11.88		18.10	Same as at item No. 3.
31	Dismantling plank or wooden block flooring etc.	P.Sft.	17.11			
					18.10	(I) Bends, elbow, sluicievalves, etc, should not be paid for extra fixed in the length of Pipeline that is being dismantled.
32	Dismantling and removing earthen ware or R.C.C pipes from trechn and stacking outside.					
	(a) Above 6" to 12 dia	P.Rft	43.46			

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

(b) Above 12" to 24" dia

P.Rft

69.31

(c.) Above 24" to 36" dia Metre

P.Rft

79.61

(d) Above 36"inch dia. Metre

P.Rft

118.71

(ii) The rate does not include the cost of excavation and refilling trenches or demolishing of any masonry or brick work

WOOD WORKS.

33	(a) Removing door with chowket.	Per No.	574.26	18.10	Same as at item No. 3.
	(b) Removing Window and sky light with chowkets.	Per No.	465.31	18.10	Do
34	Removing ventilators and Wooden sunshedes etc.	Per No.	230.58	18.10	Do
35	(a) Dismantling wooden beams upto 4m 12' in length.	Per No.	427.76	18.10	Do
	(b) Dismantling wooden beams upto 13 to 23 " m in length	Per No.	681.25		
36	Dismantling wooden partition Jaffrey works etc.	P.Sft.	7.28	18.10	Do
37	Dismantling wooding trusses.	P.Cwt.	1152.55	18.10	Do
38	Dismantling sleeper huts.	P.Sft.	31.69	18.10	
39	Dismantling sleeper walls.	P Sleeper	63.37	18.10	
40	Dismantling wooden palisade fencing.	Per Rft.	62.37	18.10	

IRON WORK.

41	Dismantling iron work of trusses sheds water tanks, etc, excluding cutting of rivets.	Per Cwt.	1148.52	18.10	Same as at item No. 3.
42	Dismantling rolled steel beams, Iron rails etc.	Per Cwt.	528.10	18.10	Same as at item No. 3.
43	Dismantling iron latrine.	Per Unit of 2 Seats	2554.44	18.10	
44	Dismantling tees, bends or sluice valves upto 12" bore.	Per Inch Bore	50.00	18.10	
45	(a) Dismantling B.G Water column.	Each.	17227.78	18.10	For P.W.R
	(b) Dismantling M.G or N.G Water column.	Each.	11119.04		For P.W.R
46	Dismantling all types of wire fencing including rolling wires into bundles and collecting materials.	P.Rft.	11.02	18.10	
47	Dismantling tie bar or Bains fencing including rolling wire into bundles and collecting materials.	P.Rft	126.74	18.10	
48	Dismantling boiler tube fencing.	P. Rft	158.43	18.10	

MISCELLANEOUS.

49	Dismantling wire netting of tennis courts and frame work.	P.Sft.	5.07	18.10	
50	Dismantling cloth ceiling and supporting timber.	P.Sft.	9.51	18.10	Same as at item No. 3.
51	Dismantling and removing road metalling.	P.Cft.	26.93	18.10	Same as at item No. 3.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
52	Removing mud plaster from wall..	P.Sft.	2.85		18.10	Same as at item No. 3.
53	Removing cement or lime plaster.	P.Sft.	5.39		18.10	Do
SCRAPING.						
54	(a) White wash or colour wash.	P.Sft.	3.41		18.10	Do
	(b) Ordinary distemper, oil bound distemper or paint on walls.	Do	10.30			
55	Dismantling glazed or encaustic tiles etc.	P.Sft.	31.19		18.10	Do
56	Scraping boulders.	P.Cft.	47.53		18.10	
57	Cleaning lime or cement mortar of old stones to be re-used in masonry.	P.Cft.	23.76		18.10	

CHAPTER No.3
MORTAR
DRY MORTAR REQUIRED FOR 100 CFT MASONARY

S.No.	Ratio of Mortar	Dry Mortar required for 100 Cft Wet Mortar	Dry Mortar required for 100Cft Masonary	
			Brick Work	Stone Works
1	2	3	4	5
		Cft	Cft	
	(a) Mud Mortar	135	35.00	Random rubble masonry (Uncoursed)
	(b) Cement Sand Mortar			(a) Foundation and Plinth
	1:2			(i) Mud Mortar 45Cft
	1:3			(ii) Lime Mortar
	1:4	109	30.00	of any ratio
	1:5			45 Cft
	1:6			(iii) Cement Mortar
	1:7			of any ratio
	1:8			45 Cft
	(c) Cement Lime Sand			
	1:1:6			
	1:1:8	113	32	Random rubble
	1:1:9			Masonry
	1:1:10			45 Cft
	(d) Lime Surkhi			(ii) Coursed 40 Cft
	2:3			(iii) Ashlar Block
	1:2			in course or Scabbled
	1:3	122	35	Masonry 30 Cft
	(e) Lime Sand Surkhi			(iv) Ashlar fine
	1:1:1	121	32	Masonry
	(f) Lime Cinder			
	1:1	114	32	
	(g) Lime Sand Mortar			
	1:2	121	32	

Note : (i) Cement 1 Cft - 08 Cwt.
(ii) Unslaked Lime 1.7 Cft = 1 Maund
(iii) Slaked Lime 2.5 Cft = 1 Maund

CHAPTER NO: 4
CONCRETE

Notes

- 1 Rates of all finished works include the removal of surplus debris un-used material and by-products. estimates.
- 2 For handling of all types of materials for short lead, including carriage upto 3 Chains, nothing is to be paid as extra. Where handling and Carriage involves an extra lead beyond 3 chains. Carriage for whole of the distance shall be provided in the Estimates.
- 3 The rates include the cost of scaffolding and its removal.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

Concrete

1	Mud concrete in foundation including watering and ramming using brick or stone ballast 1½" (40 mm) gauge.	P.Cft	52.08	126.86	20.1	The stone ballast crushed bajri round shingle rom Nallah or brick ballast may be used according to their comparative cheaper rate in various areas of the Province for items 1 to 5 and 16. (2) This rate also includes removal of rust from bars.
2	Dry rammed brick or stone ballast 1 1/2" to 2" gauge.	P. Cft	51.49	104.97	20.1	
3	Lime concrete including grinding of mortar.				20.5	-do-
	(a) Brick or stone ballast 1" to 1 1/2" gauge.Ratio 1: 1 :1 (1-Lime 1-Surkhi, 1-Sand)	P.Cft	100.01	248.32		
	(b)Brick or stone ballast 1 1/2" gauge.Ratio 1: 2 (1-Lime,2-Surkhi)	P.Cft	100.01	246.61		
4	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.				20.1	-do-
(a)	Ratio 1 :3 : 6	P.Cft	99.54	338.45		
(b)	Ratio 1 : 4 : 8	P.Cft	118.84	296.69		
(c)	Ratio 1 : 5 : 10	P.Cft	107.26	277.38		
(d)	Ratio 1 : 6 : 12	P.Cft	99.54	261.10		
(e)	Ratio 1 : 6 : 18	P.Cft	99.54	242.13		
(f)	Ratio 1 : 7 : 20	P.Cft	99.54	234.53		
5	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering.				20.1	I. If concrete mixer is supplied by the Govt: all charges including. Depreciation will be recovered from the contractor. II. Remarks same as at item 2.
(a)	Ratio. 1:1:2	P.Cft	149.04	610.78		
(b)	Ratio. 1: 1 1/2 : 1 1/2	P.Cft	149.04	611.83		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
(c)	Ratio. 1: 1 1/2 :3	P.Cft	149.04	502.17		
(d)	Ratio. 1:2:3	P.Cft	149.04	485.89		
(e)	Ratio. 1:3 :3	P.Cft	149.04	445.26		
(f)	Ratio. 1:2 :4	P.Cft	149.04	443.54		
(g)	Ratio. 1:2 : 6	P.Cft	149.04	395.64		
(h)	Ratio. 1:3 :6	P.Cft	149.04	388.67		
(i)	Ratio. 1: 4 :8	P.Cft	149.04	348.83		
6	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, centering, shuttering and curing. (including screening and washing of shingle.)					
a)	R.C.C work in roof slab, beams, column, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.					
(i)	Ratio 1 : 2: 4 90 Lbs of cement, 2 Cft sand and 4 Cft shingle 1/8" to 3/4" gauge.	P,Cft	329.09	717.59		
6	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering and curing (including screening and washing of shingle.)					
(a)	R.C.C work in roof slab, beams, column, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.					
(ii)	(II) Ratio 1 : 1-1/2 : 3 90 Lbs of cement, 1-1/2 Cft sand and 4 Cft shingle 1/8" to 3/4" gauge.	P.Cft	340.59	787.71		
(b)	precast reinforced cement in colum, beams lintels stairs cases, shelves etc.					
(i)	(II) Ratio 1 : 2:4 90 Lbs of cement, 2 Cft sand and 4 Cft shingle 1/8" to 3/4" gauge.	P.Cft	300.98	689.28		
(b)	precast reinforced cement in colum, beams lintels stairs cases, shelves etc.					
(ii)	Ratio 1 : 1/2:3	P.Cft	304.94	751.87		
(c)	Erecting and fixing in position precast cement concrete or stone charges. slab in roofs or lintels, etc, lift upto 20 feet including all charges.	P.Cft	79.70	126.23		
(d)	Add extra labour for RCC 2nd and subsequent story.	P.Cft	49.91			
7(i)	P/Applying Hi Bond (Sealer) water proofing polymer Modified comontitions slurries (WPMCS) to be used as water proofing, anticorrosion, weater resistance or curring membranc for fresh concrete having thickness upto 2mm in two coats upto 20' height testured or trowel finish grey or coloured i/c preparing the surface for application aas directed by Engineer Inchare.	P.Sft	38.37	56.71		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
7(ii)	Extra cost due to use of Hi Bond Pre-packaged Polymer Modified mortar (DHPMM) as an admixture in concrete mix for increasing durability, to be used in concreting, flooring, block/ brick/ stone masonry or plastering as % by weight of cement.	P.Kg	500.00			
8	Fabrication of deformed steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.)					
a)	Deformed bar					
i)	Grade-60	P.Cwt	831.66	18934.02		
ii)	Grade-40	P.Cwt	831.66	18694.79		
b)	Mild Steel	P.Cwt	831.66	17936.09		
c)	Tor Steel	P.Cwt	831.66	18271.01		
9	Precast cement concrete solid or face block (1 : 2 : 4) including cost of templates.	P.Cft	175.00	483.54		
10	Precast cement concrete hollow blocks (1:2 : 4) including cost of templates and constructing walls there of .	P.Cft	190.10	381.01		
11(i)	Providing and fixing ornamental cement jalli 2" thick (1 : 2 : 4) without steel.	P.Sft	12.47	141.04	20.1-20.4	
11(ii)	b) Providing and fixing ornamental cement jalli 4" thick (1 : 2 : 4) without steel.	P.Sft	20.79	452.24		
12	Extra labour for Laying Concrete Plain or Reinforced.					
	(a) Above 20' upto 40' (6 meter to 12 meter) height.	P.Cft	55.45			
12	Extra labour for Laying Concrete Plain or Reinforced.					
	(b) For ever additional 10' (3 meter) height.	P.Cft	34.85			
13	Extra labour for work of weirs Rails or Road- Bridges' syphons. and concreting in superstructure.	P.Cft	11.88			
14	Reinforced cement concrete spout including fixing in position 24" x 16" x 2.5"	Each	831.66	2446.26		
15	Making hole upto 3" (75 mm) dia 18" (450 mm) deep in cement concrete or stone masonry walls and repairing	P . Hole	1950.45			
16	Skipping concrete in walls including mixing.	P.Cft	81.19			
17	Nicking concrete surface.					
(a)	Cement concrete surface.	P.Sft	8.75			
(b)	Lime concrete surface.	P.Sft	2.70			
18	Preparing watering and ramming surface for laying concrete (for head works only).					Add extra 13% 32% & 51% above the labour rate of ground floor for 2nd , 3rd, 4th & Sub-sequent floors respectively.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
(a)	Horizontal floor.	P.Sft	8.32			
(b)	Glacis and crest.	P.Sft	11.44			
(c)	Inverted filters.	P.Sft	3.69			
19	Erection and removal of centering for R.C.C or plain cement concrete works of Deodar wood (2nd-Class)					
(a)	Horizontal floor.	P.Sft	121.52	298.15		
(b)	Vertical floor	P.Sft	84.13	220.36		
	Partial Wood					
(a)	Horizontal floor.	P.Sft	45.60	106.52		
(b)	Vertical floor	P.Sft	63.75	106.48		
20	Providing and laying 1 : 4: 8 cement concrete solid block Mesonry set in 1 : 6 cement sand mortar in plinth and foundation including raking out joints and curing etc. complete.	P.Cft	197.61	453.19		
21	Providing and laying 1 :4 : 8 Cement concrete solid Block masnory wall above 6" in thickness set in 1 :6 cement mortar in ground floor superstructure including raking out joint and curring etc, complete.	P.Cft	197.61	464.01		
22	Providing and laying 1 :3 : 6 Cement concrete solid Block masorany set in 1 :6 cement sand mortar in plinth and foundation in cluding raking out joints and curing etc. complete.	P.Cft	192.52	481.95		
23	Providing and laying 1 :3 : 6 Cement concrete solid Block masorany wall above 6" in thickness set in 1 : 6 cement mortar in G.F ground floor superstructure including raking out joints & curing etc, complete.	P.Cft	192.67	493.79		
24	Providing and laying 1 : 3 : 6 cement concrete solid block masonary wall 6" and below in thickness set in 1: 6 cement mortar in ground floor Super Structure including raking out joints & curring etc, complete.	P.Cft	213.69	514.82		
25	Drilling holes in R.C through.assume for 10 Nos	P.No	448.14			
26	Erecting and carting sun shades of precast R.C concrete (upto 5.0' x 2.5') Assume for 5 Nos	P.No	891.12			
27	Reinforced cement concrete spout including fixing in position with top and bottom khuras.	Each	1455.40	2023.24		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
28	Damp proof course with (cement sand and shingle concrete 1:2 :4) including 2 coats of asphaltic mixture.					
	(a) 1 1/2" thick	P.Sft	44.46	107.78		
	(b) 2" thick	P.Sft	52.38	126.97		
	(c) 3" thick	P.Sft	50.89	148.71		
29	Extra labour for lifting of steel above first floor for every additional floor.	P.Cwt	792.15			
30	Providing and fixing thermopole (foamed polythene) sheet in horizontal and vertical expansion joints. (a) 1" (25 mm) thick thermopore sheet	P.Sft	1.29	25.95		
31	Supplying and fixing broken glasses on any type of outer side compound wall as safty measures, including Ratio 1:3:6 cement concrete plain on wall copin	P.Rft	133.67	230.70		
32	Add extra Labour for Block Masonary in					
	First Floor	P.Cft	11.88			
	Second Floor	P.Cft	23.76			
	Third Floor	P.Cft	35.65			
	4th and subsequent floor	P.Cft	47.53			

CHAPTER NO: 5
BRICK WORK

Notes

- 1 The rates are to be reduced Proportionately if II or III Class Bricks are used.
- 2 Rates for all finished works include the removal of surplus debris, un-used material and by-Products.
- 3 For handling all types of materials or short lead including Carriage upto 3 Chains, nothing, is to be paid as extra Where handling and Carriage involves an extra lead beyond 3 chains, Carriage for whole of the distance should be provided in the Estimate.
- 4 Masonry of boundary wall to be considered as masonry other than buildings for items 1, 4, 5, 15, 20, 21 and 23.
- 5 The rate of lime mortar also includes grinding of mortar.
- 6 The rates include the cost of scaffolding and its removal.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

Brick Work

1	Pacca brick work in mud mortar in building.				21.1-21.4	(I) The rate is to be reduced Proportionately. If II or III Class brick are used (II) See Note No.4
	(a) In foundation and plinth.	P.Cft.	94.55	273.45		
	(b) In ground floor.	P.Cft.	116.91	295.80		
2	Add extra labour in Item No. 1 for brick work in	P.Cft.	17.23			
3	Pacca brick work in mud mortar other than building.					(I) The rate is to be reduced Proportionately. If II or III Class brick are used (II) See Note No.4
	(I) Upto 20 ft. height.(6 meter) high	P.Cft.	137.90	316.79	..do..	
	(II) Extra labour to every 5 (1.5 meter) additional height. Or part thereof.	P.Cft.	17.53			
4	Pacca brick work in foundation and plinth in:				..do..	..do..
	(a) Cement sand mortar 1:2	P.Cft.	131.96	413.92		
	(b) Cement sand mortar 1:3	P.Cft.	131.96	390.14		
	(c)Cement sand mortar 1:4	P.Cft.	131.96	375.87		
	(d) Cement sand mortar 1:5	P.Cft.	131.96	366.36		
	(e) Cement sand mortar 1:6	P.Cft.	131.96	359.20		
	(f) Cement sand mortar 1:7	P.Cft.	131.96	354.60		
	(g) Cement sand mortar 1:8	P.Cft.	131.96	350.43		
(II)	(a) lime cement sand surkhi mortar 1:1:6	P.Cft.	144.83	370.99		
	(b) lime cement sand surkhi mortar 1:1:7	P.Cft.	144.83	370.77		
	(c) lime cement sand surkhi mortar 1:1:8	P.Cft.	144.83	378.73		
	(d) lime cement sand surkhi mortar (1:1:9)	P.Cft.	144.83	345.11		
	(e) lime cement sand surkhi mortar (1:1:10)	P.Cft.	144.83	344.15		
(iii)	(a) Lime surkhi mortar. 2:3	P.Cft.	116.12	300.39		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(b) Lime surkhi mortar. 1:2	P.Cft.	159.19	344.31		
	(c)Lime surkhi mortar. 1:3	P.Cft.	116.12	302.31		
5	Pacca brick work in ground floor in (including striking of joints).				21.1	I.the rate is to be reduced Proportionately if Class bricks are used.
(I)	(a) Cement sand mortar. 1:2	P.Cft.	179.98	438.16		
	(b) Cement sand mortar. 1:3	P.Cft.	151.27	409.44		
	(c) Cement sand mortar. 1:4	P.Cft.	153.94	397.85		
	(d) Cement sand mortar. 1:5	P.Cft.	153.94	388.34		
	(e) Cement sand mortar. 1:6	P.Cft.	153.94	381.18		II. See Note No.4.
	(f) Cement sand mortar. 1:7	P.Cft.	153.94	376.58		
	(g) Cement sand mortar. 1:8	P.Cft.	153.94	372.36		
(II)	(a) Lime Cement sand mortar. Ratio (1:1:6.)	P.Cft.	179.98	404.42		
	(b) Lime Cement sand mortar Ratio (1: 1: 7)	P.Cft.	179.98	400.37		
	(c) Lime Cement sand mortar Ratio (1: 1: 8)	P.Cft.	179.98	400.32		
	(d) Lime Cement sand mortar Ratio (1: 1: 9)	P.Cft.	179.98	394.37		
	(e) Lime Cement sand mortar Ratio (1: 1: 10)	P.Cft.	179.98	392.31		
(III)	Lime sand surki mortar. 1:1:1	P.Cft.	152.75	365.09		
(IV)	Lime sand mortar. 1:2	P.Cft.	152.75	337.88		
(V)	(a) Lime Surhi mortar. 2:3	P.Cft.	152.75	410.35		
	(b) Lime surkhi mortar. 1:2	P.Cft.	152.75	387.79		
	(c) Lime surkhi mortar. 1:3	P.Cft.	152.75	372.14		
6	Add extra labour in item No.5 for brick work in:					
	First Floor	P.Cft.	17.23			
	Second Floor	P.Cft.	39.11			
	3rd Floor	P.Cft.	59.90			
	4th and subsequent Floor.	P.Cft.	96.24			
7	Pacca brick work other than building including striking of joints upto 10ft. (3 meter) height				21.1 - 21.5	
	(a) Cement sand mortar. 1:2	P.Cft.	135.64	417.60		The rate is to be reduced Proportionately if II or III Class bricks are used.
	(b) Cement sand mortar. 1:3	P.Cft.	135.64	393.82		
(I)	(c) Cement sand mortar. 1:4	P.Cft.	135.64	379.55		
	(d) Cement sand mortar. 1:5	P.Cft.	135.64	370.04		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(e) Cement sand mortar. 1:6	P.Cft.	135.64	362.88		
	(f) Cement sand mortar. 1:7	P.Cft.	135.64	358.18		
	(g) Cement sand mortar. 1:8	P.Cft.	135.64	337.06		
	(a) Lime cement sand mortar. 1:1:6	P.Cft.	135.64	381.04		
(II)	(b) Lime cement sand mortar. 1:1:7	P.Cft.	135.64	374.63		
	(c) Lime cement sand mortar. 1:1:8	P.Cft.	135.64	369.53		
	(d) Lime cement sand mortar. 1:1:9	P.Cft.	135.64	366.83		
	(e) Lime cement sand mortar. 1:1:10	P.Cft.	135.64	361.99		
(III)	Lime sand Surkhi mortar 1:1:1	P.Cft.	135.64	375.96		
(IV)	Lime sand mortar 1:2	P.Cft.	135.64	381.92		
(V)	(a) Lime Surkhi mortar. 2:3	P.Cft.	135.64	393.24		
	(b) Lime Surkhi mortar. 1:2	P.Cft.	135.64	381.92		
	(c) Lime Surkhi mortar. 1:3.	P.Cft.	135.64	367.67		
8	Add extra labour in item No.7 for every 5 feet (3 meter) addl: height.	P.Cft.	18.32			7
9	Extra labour for arch work in brick masonry including labour for centering and decentering.	P.Cft.	33.66		21.5	
10	Extra for pacca brick in staining of wells or any other circular masonry.	P.Cft.	4.63	22.08	21.1 - 21.4	
11	Extra labour for profile and flared walls	P.Cft.	7.72			The rate is to be reduced Proportionately if II or III class bricks are used.
12	Extra labour for pacca brick work in piers and abutments.					
	(I)from 10' ft (3 meter) to 20ft (6 meter) height.	P.Cft.	8.63			
	(II) Above 20' ft. (6 meter) height.	P.Cft.	17.53			
13	Reinforced brick work in Lintel of openings laid in 1:3 cement sand mortar including all labour, material, forms moulds, lifting and shuttering etc, but excluding cost and labour of steel reinforcement which shall be paid for separately.	P.Cft.	127.22	611.33		
14	Dressing of chamfering of bricks	P.No	56.87			
	Perforated pacca brick walling 114 mm (4 1/2") thick in Ground floor in:					Rate given applies to brick of special architechtrual shape see re-mark on P-25.
15	(I) Mud mortar.	P.Sft	0.42	99.95		I The rate is to be reduced Proportionately if II or III Class bricks are used II. See Note.4.
	(a) Cement sand mortar 1:2	P.Sft.	0.57	139.83		
	(b) Cement sand mortar 1:3	P.Sft.	0.57	134.65		
(II)	(c) Cement sand mortar 1:4	P.Sft.	5.40	134.49		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(d) Cement sand mortar 1:5	P.Sft.	5.17	126.49		
	(e) Cement sand mortar 1:6	P.Sft.	2.87	123.72		
	(f) Cement sand mortar 1:7	P.Sft.	5.17	119.45		
	(g) Cement sand mortar 1:8	P.Sft.	5.17	117.76		
	(a) Lime cement sand mortar 1:1:6	P.Sft.	1.15	128.59		
	(b) Lime cement sand mortar 1:1:7	P.Sft.	1.15	127.90		
(III)	(c) Lime cement sand mortar 1:1:8	P.Sft.	1.15	125.78		
	(d) Lime cement sand mortar 1:1:9	P.Sft.	1.15	124.37		
	(e) Lime cement sand mortar 1:1:10	P.Sft.	10.89	123.79		
	(IV) Lime sand surkhi mortar 1: 1: 1	P.Sft.	10.89	117.22		
	(V) Lime sand mortar 1:2	P.Sft.	10.89	126.07		
	(VI) (a) Lime surkhi mortar 2:3	P.Sft.	10.89	124.97		
	(b) Lime surkhi mortar 1:2	P.Sft.	10.89	124.97		
	(c) Lime surkhi mortar 1:3	P.Sft.	10.89	124.97		
16	Add extra labour in item No. 15 for perforated pacca brick work in:					
	First Floor	P.Sft.	8.73			
	Second Floor	P.Sft.	19.45			
	Third Floor	P.Sft.	31.88			
	4th & Subsequent Floor.	P.Sft.	45.92			
17	Perforated pacca brick walling 9" thick in ground floor in:				21.1 - 21.4	
(i)	(a) In Mud mortar.	P.Sft.	10.89	186.10		Rate is to be reduced Proportionately if II or III class bricks are used.
(ii)	Cement sand mortar. 1:2	P.Sft.	24.75	238.96		
(iii)	Cement sand mortar. 1:3	P.Sft.	24.75	239.60		
(iv)	Cement sand mortar. 1:4	P.Sft.	24.75	232.47		
(v)	Cement sand mortar. 1:5	P.Sft.	24.75	227.71		
(vi)	Cement sand mortar. 1:6	P.Sft.	24.75	224.36		
(vii)	Cement sand mortar. 1:7	P.Sft.	24.75	221.77		
(viii)	Cement sand mortar. 1:8	P.Sft.	24.75	219.75		
(ix)	Lime cement sand mortar 1:1:6	P.Sft.	24.75	233.21		
(x)	(b)Lime cement sand mortar 1:1:7	P.Sft.	24.75	220.55		
(x)	(c)Lime cement sand mortar 1:1:8	P.Sft.	24.75	219.08		
(xi)	(d) Lime cement sand mortar 1:1:9	P.Sft.	24.75	215.95		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
(xii)	(e) Lime cement sand mortar 1:1:10	P.Sft.	24.75	216.68		
(xii)	lime sand surkhi mortar 1:1:1	P.Sft.	24.75	200.27		
(ii)	Lime sand mortar 1:2	P.Sft.	24.75	232.29		
(iii)	(a) Lime surkhi mortar. 2:3	P.Sft.	24.75	234.33		
(iii)	(b) Lime surkhi mortar. 1:2	P.Sft.	24.75	228.10		
	(c) Lime surkhi mortar. 1:3	P.Sft.	24.75	220.20		
18	Extra labour in item No.18 for per perforated pacca brick work					
a	First Floor	P.Sft.	13.44			
b	Second Floor	P.Sft.	29.72			
c	Third Floor	P.Sft.	46.12			
d	4th & Subsequent Floor.	P.Sft.	74.10			
19	Fire brick masonry in fire clay mortar				21.1 - 21.2	
(I)	Upto 20ft (6 meter) height including all charges.	P.Cft.	205.94	502.88		
(ii)	Extra for every 1.5 meter additional height	P.Cft.	17.51			
20	(First class brick)walling laid in 1:3 cement sand mortar reinforced with 1" 25 mm wide 18 gauge hoop iron:-				21 - 19	I The rate is to be reduced Proportionately if II or III Class bricks are used.
(i)	4 1/2" (114 mm) thick walling with hoop iron bounding 6"(150 mm) apart.	P.Sft.	8.32	215.26		
(ii)	4 1/2" (114 mm)thick walling with hoop iron bonding 12" (300 mm) apart.	P.Sft.	3.33	192.35		
	First class brick walling laid in (1 : 3) cement sand mortar reinforced with 1" (25 mm) wide 18 gauge hoop iron.					II See Note 4
(iii)	3"(75 mm) walling with hoop iron bonding 6" (15 mm) apart.	P.Sft.	4.16	149.62		
(iv))	3"(75mm) walling with hoop iron bonding 12"(300 mm) apart.	P.Sft.	4.16	134.62		
21	Ghilafi work 1" to 1- 1/2" (thick wall).	P.Cft	138.12	224.46		I The rate is to be reduceds Proportionately if II or III Class bricks are used.
22	Dry brick Pitching	P.Cft.	153.26	279.62		
23	Sun dried bricks in mud mortar.	P.Cft.	89.70	117.35		
24	Pise wall (Mud walling)	P.Cft.	44.75			See Note 4.
25	Providing Eave brick moulded , weathered and throated with back bricks or drip course cornice in 1:3 cement mortar.					See Note 4.
a	(i) 3" thick drip course cornice.	P. Rft	76.73	124.63		
	(ii) 4½" thick drip course cornice.	P. Rft	171.78	222.81		
b	(II) 4 1/2" thick cave brick with back brick.	P. Rft	20.89	239.94		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

26 Providing & Laying dressed or moulded brick cornices in 1:6 cement mortar, plastering or pointing complete.

(I) One brick.	P. Rft	4.95	95.24
(II) Two bricks	P. Rft	4.95	199.09
(III) Three bricks	P. Rft	29.70	315.74
(IV) Four bricks	P. Rft	74.26	389.95

27 Cleaning bricks dismantled from kacha pacca masonry.

Nos. 2.34

28 Scraping bricks dismantled from pacca masonry.

Nos. 4.25

29 Supplying and filling sand under floor and plugging in walls.

P.Cft. 6.44 57.52

CHAPTER NO: 6
STONE MASONRY

Notes

- 1 Rates for all finished work include the removal of the surplus debris un-used material and by- products.
- 2 For handling all types of materials for short leads including carriage upto 3 chains. Nothing is to be paid as extra, where handling and carriage involves an extra lead beyond 3 chains, Carriage for whole of the distance should be (Provided in the estimate).
- 3 The rates include the Cost of Scaffolding and its removal.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

Stone Masonry

1	Random, rubble masonry (uncoursed FOUNDATION AND PLINTH.				22.10 & 22.11	
	(i) Dry Masonry	P.Cft	45.74	114.07		
	(ii) In Mud mortar	P.Cft	66.34	144.14		
	In Lime motor Ratio (i) 1Lime 2 Sand	P.Cft	142.08	282.08		
	In Lime Mortar (ii) 1 Lime 1Sand : 1 Surkhi	P.Cft	197.30	307.66		
	In Lime Motor (iii) 1Lime 2 surkhi.	P.Cft	190.10	293.23		
	(d) In cement sand mortar.					
	(i) 1 Cement : 3 Sand Ratio 1:3	P.Cft	135.64	316.71		
	In cement sand mortar (ii) 1 Cement : 4 Sand Ratio. 1:4	P.Cft	148.51	307.03		
	In cement sand mortar (i) 1 Cement : 5 Sand Ratio. 1:5	P.Cft	132.67	218.59		
	In Cement Sand Mortar (iv) 1 Cement : 6 Sand Ratio. 1:6	P.Cft	177.23	283.13		
2	Coursed Ruble masonry including hammer dressing.				22.8 & 22.9	
	(a) Dry Masonry	P.Cft	62.37	130.21		
	(b) In Mud mortar	P.Cft	106.33	181.54		
	(c.) In lime Mortar. (i) 1 Lime 2 sand.	P.Cft	136.63	290.30		
	In lime Mortar. (ii) 1 Lime 1 sand surkhi	P.Cft	136.63	244.45		
	In lime Mortar. (iii) 1 Lime 2 surkhi.	P.Cft	136.63	238.03		
	In lime Mortar. (i) 1 Lime 2 Sand	P.Cft	136.63	243.50		
	In Cement Sand Mortar (ii) 1 Cement : 3 Sand Ratio 1:3	P.Cft	122.27	313.51		
	In Cement Sand Mortar (ii) 1 Cement : 4 Sand Ratio 1:4	P.Cft	122.27	294.49		
	In Cement Sand Mortar (ii) 1 Cement : 5 Sand Ratio 1:5	P.Cft	122.27	225.89		
	In Cement Sand Mortar (iii) 1 Cement : 6 Sand Ratio 1:6	P.Cft	122.27	260.75		

SUPER STRUCTURE

3	(Ground floor or 20 feet height of uncovered wall). Random Rubble masonry (Uncoursed).				22.10 & 22.11	
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S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(a) Dry masonry.	P.Cft	57.43	125.75		
	(b) In mud mortar.	P.Cft	83.17	160.97		
	(c.) In lime Mortar. (i) 1 Lime 2 sand.	P.Cft	140.59	304.97		
	(iv) In lime Mortar. (ii) 1 Lime 1 Surkhi	P.Cft.	140.59	243.29		
	in Lime Motor (iii) 1 lime 1 sand 2 surkhi	P.Cft.	140.59	243.73		
	In Cement Sand Mortar (i) 1Cement :3 Sand. (Ratio1 :3)	P.Cft.	111.88	310.19		
	In Cement Sand Mortar (i) 1Cement : 4 Sand. (Ratio1 :4)	P.Cft.	111.88	288.79		
	In Cement Sand Mortar (i) 1Cement : 6 Sand. (Ratio1 :6)	P.Cft	139.11	272.24		
	In Cement Sand Mortar (i) 1Cement : 8 Sand. (Ratio1 :8)	P.Cft	119.80	258.67		
	(e) Add extra labour in item No.3 For Stone Work					
(I)	First Floor	P.Cft	26.14			
(ii)	Second Floor	P.Cft	57.33			
(iii)	Third Floor	P.Cft	92.57			
(iv)	4th and subsequent floor.	P.Cft	140.59			
	(f) Extra labour for every 5 feet additional height of uncovered wall.	P.Cft	28.71			
	(a) Dry masonry.	P.Cft	83.17	151.49		
	(b) In mud mortar.	P.Cft	140.59	217.98		
	(c.) In lime mortar.(i) 1 Lime 2 sand (Ratio 1:2)	P.Cft	144.55	331.06		
	In Lime Mortar (ii) 1 lime 1 sand 1 surkhi	P.Cft	164.36	272.18		
	In Lime Mortar (iii) 1 lime 2 surkhi	P.Cft	145.53	246.93		
	(d) In cement sand mortar 1 Cement :3 Sand. Ratio 1:3	P.Cft	140.59	331.83		
	(d) In cement sand mortar.1 Cement :4 Sand. (ii) Ratio 1:4	P.Cft	172.91	317.10		
	(d) In cement sand mortar. 1 Cement :3 Sand. (iii) Ratio 1:6	P.Cft	140.59	291.01		
	In cement sand mortar. (i) 1 Cement :8 Sand. (iii) Ratio 1:8	P.Cft	140.59	279.07		
	(e) Add extra labour in item No.4					
(i)	First Floor	P.Cft	26.14			
(ii)	Second Floor	P.Cft	57.43			
(iii)	Third Floor	P.Cft	88.61			
(iv)	4th and subsequent floor	P.Cft	141.88			

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
item No 4	Extra labour for every 5 feet additional height of un-covered wall.	P.Cft	22.38			
item No 5	Ashlar block in course or scabbled Masonry (including dressing etc.,) in ground floor or 20'(6M) height, Building					
	a)In lime Motor					
	(I) 1 lime 2 sand	P.Cft	550.48	648.74		
	(ii) 1 lime 1 sand 1 surkhi	Do	473.26	514.32		
	(iii) 1 lime 2 surkhi	Do	473.26	509.51		
	b) In Cement Sand Mortar					
	(I) Ratio 1:3	P.Cft	576.22	697.10		
	(ii) Ratio 1:4	Do	576.22	682.83		
	(iii) Ratio 1:6	Do	576.22	666.66		
	(c.) Add extra labour in item No. 5.					
	(i) First Floor	P.Cft	31.68			
	(ii) Second Floor	Do	72.08			
	(iii) Third Floor	Do	113.27			
	(iv) 4th and subsequent floor	Do	181.38			
6	Ashlar fine masonry. (including dressing etc.) in ground floor or 20' (6M) height, Building other than building.				22.3 & 22.4	
	(a) In lime mortar .i) 1 lime 2 sand (Ratio 1:2)	P.Cft	720.19	1043.27		
	In lime mortar .(ii) 1 lime: 1 surkhi : 1 Sand	P.Cft	720.29	1002.97		
	In lime mortar .(iii) 1 lime 2 sand	P.Cft	485.41	1068.69		
	(b) In cement sand mortar.i) 1 Cement : 3 Sand. (Ratio 1:3)	P.Cft	644.05	1086.57		
	In cement sand mortar.ii) 1 Cement : 4 Sand. (Ratio 1:4)	P.Cft	644.05	1103.08		
	In cement sand mortar.ii) 1 Cement : 6 Sand. (Ratio 1:6)	P.Cft	644.05	1105.77		
	(c.) Add extra labour in item No.6					
	(i) First Floor	P.Cft	25.35			
	(ii) Second Floor	P.Cft	55.94			
	(iii) Third Floor	P.Cft	88.71			
	(iv) 4th and subsequent floor	P.Cft	140.59			
	MISCELLANEOUS					
7	Extra labour for arch work in stone masonry including centering and decentering etc.	P.Cft	56.14	63.93	22 -12.	

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
8	Moulding and dressing stones etc.					
(i)	Extra Labour for coping and caps etc.	P.Cft	95.06	301.64		
8	Moulding and dressing stones etc.					
(ii)	Extra Labour rate for Cornic and String Course	P.Rft	300.22			
9	Dressing Stone				22.25	Note :1 This rate of dressing shall be paid when the supply of un-dressed stone is made.2 In case of masonry dressing is already include and this rate shall not be added there.3.Only dressed surface of stone Shall be measurd.
(i)	Hammer dressed	P.Sft	118.71			
(ii)	Rough tooled dressed	P.Sft	224.76			
(iii)	Chisel dressed	P.Sft	271.29			
(iv)	Fine dressed	P.Sft	560.35			
10	Pavement of 8" deep stone sets chisel dressed set in lime mortar 1 lime, 2 Surkhi	P.Sft	174.25	715.23	22.0	
11	Pavement of 8" deep stone sets chisel dressed set in lime mortar (1 lime, 1 surkhi and 1 sand)	P.Sft	174.25	709.30	22.1	
12	Grouting stone pitching or apron in 1:3 cement mortar.	P.Sft	39.11	125.76	22.14	
13	Sand grouting in stone pitching or apron in 1:3 Pressure hose	P.Sft	22.28	47.82	22.14	Including carriage jof sand upto two chains.
14	Levelling and dressing stone filling under blocks and grouting with shingle.	P.Sft	22.28	35.03	..do..	
15	Grouting jharies between block with bajri	P.Cft	22.28	30.94	..do..	Including carriage of bajri upto two chains.
16	Stone filling dry hand packed as filling behind retaining walls or in pitching and aprons.	P.Cft	42.46	67.42	..do..	If boulders are to be used, sub-stitute its rate in Rate Analysis.
17	Grouting stone filling or pitching with bajri (including carriage of bajri upto 2 chains.)	P.Cft	19.80	32.79	..do..	
18	Breaking stone ballast screened and stacked:-					
(a)	2" ring	P.Cft	55.45			
(b)	1 1/2" ring	P.Cft	63.37			
(c.)	1" ring	P.Cft	71.29			
(d)	1/2" ring	P.Cft	95.06			
(e)	1/8" to 1/4" ring	P.Cft	158.43			
19	Breaking stone into spawls and stacking.	P.Cft	23.76			
20	Screening and stacking stone ballast shingle or bajri, etc.	P.Cft	15.84			
21	Washing ballast, bajri or Shingle etc.	P.Cft	15.84			

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

22	Crushing stone ballast by machine.	P.Cft	47.53			Note:- This does not include the charge for working crushers but include manual labour for carriage of stone to crusher within 3 chains and also stacking the product after crushing with 3 chains.
23	Stone Pitching including sub-base with hammer dressed stone on surface laid -in courses including Carriage of materials Chains.	P.Cft.	106.93	127.99	22.2 & 22.14	Vide S.R .C.Sindh A & No 2 dated the 20th Fevru
24	Stone Pitching hand packed with surface leveled off to the Correct Section with hammer dressed Stone and voids filled in 1:8 Cement mortar in floors of bridges and along hands and in aprons etc. including three chains lead.	P.Cft	130.69	199.06		
25	Dismantling stone patching top layer and re-laying it after making good damaged slopes.	P.Cft.	81.19		22 - 14.	
26	Collection and stacking boulders from nullah beds or loose shale from any otyher site within three chains lead.	P.Cft	23.76			
27	Stone pitching for top layer only (1.3' to 1.5' thick).					To player means 1.3' to 1.5' stone pitching layer.
	(a) On slope	P.Cft	89.11			
	(b) In bed	P.Cft	57.43			
28	Laying stone or spawl filling					
	(a) On level	P.Cft.	14.36			
	(b) On slopes.	P.Cft.	24.24			
29	Dhajji walling 5" x 5" thick deodar framing with stone laid in 1:6 cement sand mortar and 1:4 cement plaster on both sides.	P.Sft.	37.42	528.47	22.13	
30	Fixing stone blocks from 2 Cft. To 6 Cft. Each including lift upto 20 ft.	Per Cft.	975.27	1026.46	22.14	
31	Fixing stone blocks under 2 Cft.	Per Cft.	444.77	649.52	22.14	
32	Extra Labour on Items 3,4,5 and 6 for work in.	P.Cft	28.71		22.14	

CHAPTER NO: 7
ROOFING

Notes

- 1 Rate for all finished work include the removal of the surplus debris un-used material and by products.
- 2 For handling all types of materials for short leads including carriage upto 3 chains nothing is to be paid as extra, where handling and carriage involves an extra lead beyond 3 chains, Carriage for whole of the distance shall be provided in the Estimates.
- 3 The rates include the Cost of Scaffolding and its removal.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
Roofing						
1	First class tile roofing consisting of 4" (100mm) earth and 1" (25mm) mud plaster with Gobri leaping over 1/2" (12mm) thick cement plaster 1:6 with 34 Lbs. Of hot bitumen coating sand blinded provided over 2 layers of tiles 12" x 6" x 1 1/4" (300x150x32mm) laid in 1:6 cement mortar with 1/2" (1" (25mm) thick sand wiche layer of 1:6 cement mortar including 1:2 cement pointing underside of tiles complete including curing etc.	P.Sft	61.58	292.62	23.1	Add extra 13% 32% & 51% on labour rate only or 6% 15% and 23% on composite rate of 2nd 3rd,4th and subsequent floors, respectively on items 1,2,3,4,5,6,7,8,9,10,11,12,13,16,17,18,19,20,21,22,23,24,25,26,27 only.
2	Second class tile roofing consisting of 4" (100mm) earth and 1" (25mm) mud plaster with Gobri leaping over 1/2" thick cement plaster 1:6 with 34 Lbs. per P.Sft or 1.72 Kg/Sqm of hot bitumen coating sand blinded, provided over one layer of 12" x 6"x2" (300x150x50mm) tiles laid in 1:6 cement mortar including 1:2 cement pointing under neath of tiles complete including curing etc.	P.Sft.	73.27	224.55	23.2	Do
3	Covering mud roof with coalter and fine sand.	P.Sft.	3.21	22.83	23.1-23.2	Same as Item No.1.
4	Filling spaces between:					Do
	(a) Wooden battens over beams filled with deodar wood pieces (Spacers.)	P.Sft	14.55	85.48		The unit of rate for filling spaces in 100 Sft of roof.
	(b) R.C.C battens with C.C blocks (1:3:6)	P.Sft	22.68	31.54		
	(c) Spaces filled with bricks	P.Sft	7.03	17.64		
5	Single layer of tiles 9"x4½"x1½" (225 x 112.5 x 40mm) laid over 4" (100mm) earth and 1" (25mm) mud plaster without Bhoosa grouted with cement sand 1:3 on top of RCC roof slab provided with 34 lbs. per P.Sft bitumen coating sand blinded.	P.Sft	24.95	139.09	23.1	Same as Item No.1.
6	3rd class mud roof consisting of 4" mud plaster over one layer of sarkanda matting and one layer of sirki.	P.Sft	33.84	153.44		Same as Item No.1.
7	Jack arch roofing 4½" (112.5mm) thick laid in 1:5 cement mortar including an average depth of 4" (100mm) thick cement concrete in haunches and over crown with 3" (75mm) earth and 1" (25mm) plaster soffits of arches cement plastered 1:6 and ½" (12mm) thick. The rate also includes bitumen coating centering, laying skew bricks in cement sand mortar 1:3 and encasing exposed flanges of the joints with fine cement concrete 1:2:4. Using stone aggregate.					
	(a) Cement concrete in haunches. 1:6:12	P.Sft	169.30	415.25		
	(b) Cement concrete in haunches. 1:3:6	P.Sft	148.51	419.23		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
8	Jack arch roofing 4½" (112.5mm) thick laid in 1:5 cement mortar including an average depth of 4" (100mm) thick cement concrete in haunches and over crown with ½" (12mm) thick cement plaster 1:6 on top (Except earth filling, plaster and gobri), soffits of arches cement plastered. The rate also includes bitumen coating centering, laying skew bricks in cement sand mortar 1:3 and encasing exposed flanges of the joints with fine cement concrete 1:2:4. Using stone aggregate.				23 to 25.5	Same as Item No.1.
	(a) Cement concrete in haunches. (1:6:12)	P.Sft	186.63	421.32		
	(b) Cement concrete in haunches. 1:3:6	P.Sft	127.72	387.88		
9	Extra for vaulted jack arch roofing	P.Sft	33.46			Same as Item No.7.
10	Jack arch roofing of shingle and cement concrete (1:3:6), 4½" (112.5mm) thick at crown, with ½" (12mm) cement plaster including cost of supplying erecting and dismantling centering.	P.Sft	217.83	357.46		
11	Earth filling over roof including watering ramming with 1" (25mm) mud plaster finished with gobri leeping.					Same as Item No.1.
	(a) 3" (75mm) thick earth filling and 1" (25mm) mud plaster	P.Sft	8.16	25.34		
	b) 4" (100mm) thick earth filling and 1" (25mm) mud plaster.	P.Sft	6.26	30.71		
12	1/8"(3mm) thick gobri leeping on roofs or floors.	P.Sft	2.75	2.94		..do..
13	2 coats of bitumen laid hot using 34 lbs (1.72Kg/Sqm) per P.Sft over roof and blinded with sand at 1 Cft per % Sf	P.Sft	11.88	47.84		..do..
14	Thatched roof complete with bambo frame and matting including cost of all materials and labour.					..do..
	(a) Upto 4-1/2" thick thatched roof (Sarkanda)	P.Sft	23.76	74.44		
	(b) Upto 6" thick thatched roof (grass)	P.Sft	31.69	134.22		
	(c)Upto 9" thick thatched roof (grass)	P.Sft	31.69	141.24		
	(d) Upto 12" thick thatched roof (grass)	P.Sft	31.69	148.26		
15	Date palm chattai roofing including cost of bamboos except	P.Sft	33.84	136.00		
16	Fixing corrugated galvanized iron sheets with G.I. bolts, nuts, limpet and bitumen washers, wind ties complete in all respect without valleys and ridges.					
	a) 20 - S. W. G.	P.Sft	374.25	444.69		
	b) 22 - S. W. G.	P.Sft	291.08	388.20		
	c) 24 - S. W. G.	P.Sft	233.65	353.41		
17	Khassi parnalas in cement and sand mortar (1:2) 12" outside width finished smooth with a floating coat of neat cement.	P,Rft	185.14	242.02	23.1	Same as Item No.1.
18	Khuras, on roof size 2' x 2' x 4" (600 x 600 x 100mm)	P.No	495.04	1001.84	23.1	..do..

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
19	Bottom khuras of brick masonry in cement mortar (1:6) 4'x2'x4½" (1200x600x114mm) over 3" (75mm) cement concrete (1:4:8)	P.No	495.04	1866.11	23.1	..do..
20	Plain galvanized iron sheets of 22 S.W.G rain water down pipe including clamp and fixing in position				23.1	..do..
	a) 4" (100mm) dia down pipe	P.Rft	67.32	450.92		
	b) 5 (125mm) dia down pipe	P.Rft	67.32	515.77		
21	Plain galvanized iron sheets flashing of 22 gauge.	P.Rft	57.43	359.96	23.1	..do..
22	Cast iron rain water down pipe fixed in position, excluding heads and shoes, but including painting and clamps, etc.				23.1	..do..
	(a) 4" (100mm) dia Cast Iron down pipe.	P.Rft	6.93	475.37		
	b) 3" (75mm) dia Cast Iron down pipe.	P.Rft	7.37	436.81		
23	Rain water down pipe cast iron heads fixed in place, including cost of clamp, holdfast, and painting.	P.No	673.23	1269.73	23.1	..do..
24	Shoes bends or offsets for cast iron rain water down pipe including fixing and painting.	P.No	374.25	688.86	23.1	..do..
25	Plain G.I. sheet iron spouts fixed in position, including painting.	P.No	514.80	959.82	23.1	Same as Item No.1.
26	Laying ½" thick deodar ceiling complete (including sawing planing and fixing)	P.Sft	41.58	759.40		
27	Flat sheet roof with galvanized iron sheets including battens, rolls, screw, clips etc. (planking to be paid for separately).				23.6	
	a) 22 B. W. G. Sheets Roofing.	P.Sft	108.66	474.68		
	b) 24 B. W. G. Sheets Roofing.	P.Sft	108.66	431.79		
28	Asbestos cement corrugated sheet roofing including necessary over laps and G.I. hooks, bolts, nuts, screws washers and bitumen washers etc. (excluding valleys and ridges etc.)	P.Sft	20.79	198.05	23.8	
29	Extra labour for erection of G.I. sheets, flat sheet or asbestos sheet roofing, above 20' height in difficult position including lifting with care and special scaffolding along live electric wires.	P.Sft	6.30		23.6	
30	Fixing Asbestos cement sheet ridges and valleys 1/4" thick	P.Rft	34.08	793.60	23.8	
31	Plain galvanized iron sheet ridging including fixture, timber for ridge roll and ridge sheeting.					
	a) 6" lap and 18" over all of 22 gauge G.I. sheet ridging.	P.Rft	249.50	1681.97		
	b) 9" lap and 24" over all of 22 gauge G.I. sheet ridging.	P.Rft	249.50	1419.23		
	c) 12" lap and 30" over all of 22 gauge G.I. sheet ridging.	P.Rft	249.50	1597.57		
32	Plain 22 gauge G.I sheet gutter semi-circular 8" Diameter.	P.Rft	124.75	404.65	23.1	
33	Making and fixing cowl roof ventiletors of sheet iron.	P. No	2079.15	4148.33	23.11	
34	Fixing cowl roof ventiletor.	P.No	519.79			

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
35	Making masonry ventilators.	P.No	2910.81	3516.87		
36	Fixing earthen ware syphon ventilators.	P.No	540.81		23.1	
37	Fixing water spouts or parnalas.	P.No	1039.57			
38	Providing and laying single layer of polythene sheet 0.13 m.m thick for water proofing as per specification and instructions of Engineer Incharge.	P.Sft	1.90	24.01		
39	Khaprial of cement concrete 12" * 8" *1" of approved design/ shape laid flat in 1:2 grey cement mortar over a bed of 3/4" thick grey cement mortar 1:2.	P.Sft	69.25	611.04		
40	Khaprial (Manglore) Tiles 15" * 8" *1-1/2" of approved design/ shape laid flat in 1:2 grey cement mortar over a bed of 3/4" thick grey cement mortar 1:2.	P.Sft	75.68	459.25		
41	Providing and fixing with bitumen felt paper of 60 Lbs over roof i/c cleaning of roof with wire brush and removing dust, applying bitumen coat at the rate of 34 Lbs per P.Sft as premix inter coats and then laying felt paper with 10% over laps, then applying and spreading hill sand at the rate of 1 cft for 100 sft. The cost also i/c necessary fore material, kerosene oil, wood etc:	P.Sft	31.69	95.62		
42	Providing and fixing with jute felt paper of 60 Lbs over roof i/c cleaning of roof with wire brush and removing dust, applying bitumen coat at the rate of 34 Lbs per P.Sft as premix inter coats and then laying felt paper with 10% over laps, then applying and spreading hill sand at the rate of 1 cft for 100 sft. The cost also i/c necessary fore material, kerosene oil, wood etc:	P.Sft	31.69	251.62		
43	Providing & fixing false ceiling of thermopile in panels of required design and size including frame work of Aluminum T-section hanged with nail wire to ceiling etc: completed.	P.Sft	72.19	216.75		
44	Providing & fixing plaster of paris ceiling border of 8" - 10" width of specified design & thickness i/c fixing besides ceiling with nails/ screws with jetties.	P.Rft	96.36	362.34		
45	Providing & fixing plaster of paris centre pieces of 2' -0 dia i/c fixing in ceiling with jetties	Each	465.31	2572.48		
46	Providing & fixing plaster of paris centre pieces cover pieces triangle shape i/c fixing in ceiling with nails / screws.	Each	465.31	2572.48		
47	Providing and fixing 1/16" (1.5mm) thick lead flashing over roof expansion joint complete in all respects.	P.Sft	31.69	105.78		
48	Making drip course 2"x1/2" (50x12mm) under RCC Slab edges in outer opening, in cement, sand mortar (1:2)	P.Rft	6.38	34.42		

CHAPTER NO: 8
FLOORING

Notes

- 1 Rates for all finished work include the removal of the surplus debris un-used material and by- products.
- 2 For handling all types of materials for short leads including carriage upto 3 chains (90m) Nothing is to be paid as extra, where handling and carriage involves an extra lead beyond 3 chains (90m) Carriage for whole of the distance shall be provided in the Estimate.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

Flooring

1	Laying Murum flooring consisting of 1" (25mm) layer of fine powdery or flakey variety of Murum laid over 6" (150mm) good hard layer of Murum spread over 9"(225mm) thick sub-base comprising of hand packed rubble or broken bricks properly watered and rammed provided over well rammed earth.	P.Sft	59.41	100.78	24.1	
2	Earth flooring consisting or 6" thick consolidated layer of moistened earth including ramming.	P.Sft	18.27	28.80	24.1	
3	Mud flooring consisting of 6" thick consolidated layer of moistened earth and finished off with 1" mud plaster and gobri leeping.	P.Sft	34.16	53.22	24.2	
4	Dry brick paving laid flat, sand grouted including priparation of bed by watering remming and bringing the same to proper camber by 1/2" mud plaster.	P.Sft	15.25	77.53	24.12	
5	Dry brick on edge paving sand grouted including preparation of bed by watering ramming and bringing the same to proper camber by 1/2" thick mud plaster.	P.Sft	37.57	130.06	24.12	
6	Grouting 4 1/2" dry brick work with cement mortar Ratio 1:5.	P.Sft	22.79	34.54		
7	Flate brick flooringf laid in 1:6 cement mortar over a bed of 3/4" thick cement mortar 1:6.	P.Sft	44.56	125.98	24.4	
8	Flate brick Flooring laid in lime mortar over a bed of 3/4" thick lime bedding mortar 1:1:1 lime, surkhi, sand.)	P.Sft	50.99	137.67	24.4	
9	Brick on edge flooring laid in 1:6 cement mortar over a bed 3/4" thick cement mortar 1:6.	P.Sft	49.50	166.74	24.4	
10	Brick on edge flooring laid in lime mortar over 3/4" thick bed of lime surkhi mortar 1:2.	P.Sft	65.35	186.00	24.4	
11	Brick Tile (size 12" x 6" x 2") laid in 1:6 cement mortar over a bed of 3/4" thick cement mortar 1:6	P.Sft	45.94	100.66	24.4	
12	Brick Tile (size 9" x4 1/2" x 1 1/2") laid flat in 1:3 cement mortar over a bed of 3/4" thick cement mortar 1:6.	P.Sft	22.97	134.73	24.4	
13	Cement tiles (8" x 8" x 3/4") laid flat in 1:2 cement mortar over 3/4" thick cement mortar 1:2.	P.Sft	69.25	176.15	24.7	
14	Cement concrete tiles laid flat in 1:2 cement mortar over 3/4" thick bed of cement mortar1:2.				24.8	
	(a) 11 15/16" x 11 15/16" x1"	P.Sft	69.25	142.53		
	(b) 8 15/16" x 8 15/16" x3/4"	P.Sft	69.25	189.40		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(c.) 5 15/16" x 5 15/16" x 3/4"	P.Sft	69.25	220.78		
15	Coloured cement tiles (8" x 8" x 3/4") of approved dark shade laid flat in 1:2 cement mortar over 3/4" bedding mortar of 1:2.	P.Sft	69.25	188.39	24.7	
16	Providing and laying 1" thick topping of cement concrete (1:2:4) including Surface finishing and dividing into panels:				24.9	
	(a) 1" thick	P.Sft	40.39	65.57		
	(b) 1 1/2" thick	P.Sft	50.39	86.78		
	(c.) 2" thick	P.Sft	59.80	108.75		
	(d.) 3" thick	P.Sft	73.56	145.00		
17	Add extra in cement concrete floor topping, if finished with pigment and polishing.	P.Sft	2.08	22.62		
18	Extra labour for each storey above ground for mosaic, conglomerate or tiles, stone and wooden floor.	P.Sft	9.19			On item No.7, 16.19,to
19	Flag stone flooring laid in lime mortar 1:2 over 3/4" bedding mortar in platforms and floors etc.				24.5	
	(a) 2" thick	P.Sft	49.50	185.53		
	(b) 3" thick	P.Sft	49.50	190.40		
20	Asphalt flooring including preparation of proper base remelting, setting out and finishing complete.				24.10	The rate includes the rate of patties separators in joints.
	(a) 1" thick topping	P.Sft	11.68	309.70		
	(b) 1/2" thick topping	P.Sft	11.68	170.71		
	(c.) 1/4" thick topping.	P.Sft	11.68	101.10		
21	1 1/2" 1 3/8" thick topping. thick mosaic flooring consisting of 3/8" mosaic tipping of one part of grey cement and marble powder in the ratio 3:1 and to two parts of marble chips laid over 1" thick flooring of 1:2:4 cement concrete, including rubbing and polishing complete.	P.Sft	168.32	238.84	24.8	Do
22	1 1/2" thick mosaic flooring consisting of 1/2" mosaic topping of one part of grey cement and marble powder in the ratio 3:1 and to two part of marble chips laid over 1"thick flooring of 1:2:4 cement concrete including rubbing and polishing complete.	P.Sft	188.12	268.32	24.8	Do
23	Providing & laying floor of mosaic marble chips tile 1" (25mm) thick of approved quality and shade laid in white cement and pigment over 3/4" (20mm) thick bedding in cement sand mortar 1:2 including finshing and polishing complete	P.Sft	135.64	222.88	24.8	
24	Laying floor of approved with glazed tiles 1/4" thick dado of approved color & size jointing in white cement and laid over 1:2 cement sand mortor 3/4" thick including grouting with matching color and finishing.	P.Sft	106.93	389.36	24.8	

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
25	Laying floors of approved coloured glazed tiles 1/4" thick floor of approved color & size jointing in white cement and laid over 1:2 cement sand mortar 3/4" thick including grouting with matching color and finishing.	P.Sft	96.53	325.40	24.7	
26	Rubbing and polishing old grit/mosaic floor including repairing voids, un-even surfsce complete in all respect mosaic floor.	P.Sft	22.18	39.46	24.8	
27	Cleaning and washing mosaic of marble floor with caustic soda mixture.	P.Sft	4.76	6.41	24.6	
28	Laying Afghan Ziarat white marble flooring fine dressed on the surface without winding set in lime mortar 1:2 including rubbing and polishing of the joints.				24.6	
(i)	(a) 3/4" thick marble	P.Sft	125.48	1058.78		
(ii)	(b) 1" thick marble.	P.Sft	125.48	1181.63		
(iii)	Laying Verona marble flooring Size 24"x12"x1"/12"x12"x1" fine dressed on the surface without winding set in lime mortar 1:2 including rubbing and polishing of the joints.				24.6	
	(a) 3/4" thick marble	P.Sft	125.48	369.59		
	(b) 1" thick marble.	P.Sft	125.48	381.88		
(v)	Laying Super Botisina, Crème,Badal or Black Marble 12"x12" / 12"x24" fine dressed on the surface without winding set in lime mortar 1:2 including rubbing and polishing of the joints.				24.6	
	(a) 3/4" thick marble	P.Sft	125.48	337.90		
	(b) 1" thick marble.	P.Sft	125.48	378.19		
(vii)	Providing & Laying Full Body Porcelain Tile in Flooring or Facing of Approved Design Set in Gry Cement Motor 1:2 or of 3/4" Thickinss I/C Washing & Joints With White Cement Slurry Using Colour Pigment for matching complete as per Spacification.				24.6	
	(a) 16"x16"x5/16" thick flooring.	P.Sft	151.49	373.84		
(viii)	(b)18"x18"x5/16" flooring	P.Sft	151.49	373.84		
(ix)	24"x24"x5/16"	P.Sft	151.49	439.57		
(x)	24"x36"x5/16"	P.Sft	151.49	620.77		
(xi)	24"x48"x5/16"	P.Sft	151.49	651.48		
29	Shisham wood boarding of strips flooring 3/4" thick (sawn to required sizes) tongued and grooved or spalyed rebated fixed with brass screws on deodar wood battens 1 1/2" x 2" placed at 12" centre to centre including two coats of bitumen laid hat on the base.	P.Sft	108.91	2037.38	24.13	
30	Deodar wood boarding of strips flooring 3/4" thick(flooring 3/4" thick (sawn to required sizes) tongued and groved or spalyed rebated fixed with brass screws on deodar wood battens 1 1/2" x 2" placed at 12" centre to centre including two coats of bitumen laid hot on the base.	P.Sft	146.54	1761.48	24.13	

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
31	Teak wood boarding of strips flooring 1/2" thick (sawn to required sizes) tongued and groved screwed on deodar wood battens 1 1/2" x 2" size placed at 12" centre to centre including two coats of bitumen laid hot on the base.	P.Sft	233.65	2492.16	24.13	
32	Shisham wood block flooring 1" thick cut to required size fixed on a layer of asphalt bitumen laid on base.	P.Sft	176.23	2483.34		
33	Teak wood block 1" thick cut to required sizes foxed on a layer of asphalt bitumen laid on base.	P.Sft	138.61	4691.10	24.13	
34	Laying wooden paying of hard wood on edge in coal tar and asphalt.					
	(a) Shisham wood.	P.Sft	182.66	1515.10	24.13	
	(b) Kikar wood	P.Sft	182.66	454.33	24.8	
35	Tile skirting lain in 1:2 cement mortar over 3/4" thick cement mortar 1:2 including cement washing and filling joints complete.					
	(a) Cement tiles	P.Sft	114.85	210.56		
	(b) Mosaic tiles.	P.Sft	114.85	308.31		
36	Providing grey cement skirting or dado 3/8" thick including rounding of corner and straightening of top edge and finishing to smooth surface after plastering.					
	(a) 1:2 cement sand mortar	P.Sft	59.84	73.64		
	(b) 1:3 cement sand mortar.	P.Sft	59.84	69.91		
	(c.) Extra if skirting or dado is finished with pigment of any colour.	P.Sft	5.55	9.93		
37	Mosaic dado or skirting one part of grey cement and marble powder in the ratio of 3:1 and 2 parts of marble chips, laid over 1/2" thick cement plaster 1:3 including rubbing and polishing complete with finishing.					
	(a) 3/8" thick	P.Sft	158.41	230.89		
	(b) 1/2" thick.	P.Sft	158.41	238.63		
38	Mosaic dado or skirting one part of white cement and 2 parts of marble chips laid over 1/2" thick cement plaster 1:3 complete with finishing 3/8" thick.					
	(a) 3/8" thick	P.Sft	158.41	249.63		
	(b) 1/2" thick.	P.Sft	158.41	261.65		
39	Coloured cement tiles (8" x 8" x 3/4") of approved dark shade laid flat in 1:2 white cement mortar over a bed of 3/4" thick lime mortar 1:2.	P.Sft	69.25	203.29		
40	Mosaic tiles of grey cement 8" x 8" x 1" of approved shade Khapcha laid flat in 1:2 white cement mortar over a bed of 3/4" thick lime mortar 1:2.	P.Sft	69.25	205.75		
41	Mosaic tiles of white cement 8" x 8" x 1" of approved shade with Khapcha laid flat in 1:2 white cement mortar over a bed of 3/4" thick Gry Cement mortar 1:2.	P.Sft	69.25	279.46		
42	Mosaic tiles of grey cement 12" x 12" x 1" of approved shade laid flat in 1:2 white cement mortar over a bed of 3/4" thick lime mortar 1:2.	P.Sft	69.25	227.86		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
43	Mosaic tiles of grey cement 12" x 12" x 1" of approved shade with khapcha laid flat in 1:2 white cement mortar over a bed of 3/4" thick lime mortar 1:2.	P.Sft	69.25	272.09		
44	Mosaic tiles of white cement 12" x 12" x 1" of approved shade laid flat in 1:2 white cement mortar over a bed of 3/4" thick lime mortar 1:2.	P.Sft	69.25	272.09		
45	Mosaic tiles of white cement 12" x 12" x 1" of approved shade with Khapcha laid flat in 1:2 white cement mortar over a bed of 3/4" thick lime mortar 1:2.	P.Sft	69.25	272.09		
46	Mosaic tiles of grey cement 8" x 8" x 1" of approved shade laid flat in 1:2 grey cement mortar over a bed of 3/4" thick lime mortar 1:2.	P.Sft	69.25	205.75		
47	Mosaic tiles of white cement 8" x 8" x 1" of approved shade laid flat in 1:2 white cement mortar over a bed of 3/4" thick grey cement mortar 1:2.	P.Sft	69.25	226.86		
48	Mosaic tiles of grey cement 12"x12"x1" of approved shade with Khapcha laid flat in 1:2 white cement mortar over a bed of 3/4" thick Grey Cement mortar 1:2.	P.Sft	69.25	271.17		
49	Mosaic tiles of white cement 12"x12"x1" of approved shade with Khapcha laid flat in 1:2 white cement mortar over a bed of 3/4" thick Grey Cement mortar 1:2.	P.Sft	69.25	273.48		
50	Laying mosaic topping 1/2" thick in pannels of approved any pattern of one part of white cement to two parts of marble chips of required shade and size and of approved pigment in the ratio of 1: 12 of cement used in topping including rubbing and polishing etc. complete.	P.Sft	71.78	168.68		
51	Mosaic chequer tiles of 8" x 8" x 1- 1/4" of approved shade laid flat in 1:2 grey cement mortar over a bed of 3/4" thick grey cement mortar. 1:2.	P.Sft	69.25	296.82		
52	Mosaic chequer tiles of 11" x 8" x 1- 1/4" of approved shade laid flat in 1:2 grey cement mortar over a bed of 3/4" thick grey cement mortar. 1:2.	P.Sft	69.25	309.10		
53	Coloured cement tiles (Pattern 8" x 8" x 3/4" of approved shade and pattern laid flat in 1:2 grey cement mortar over a bed of 3/4" thick grey cement mortar 1:2.	P.Sft	65.10	163.36		
54	Coloured cement tiles (Pattern 12" x 12" x 1" of approved shade and pattern laid flat in 1:2 grey cement mortar over a bed of 3/4" thick grey cement mortar 1:2.	P.Sft	69.25	176.10		
55	Providing and laying HALA or pattern tiles glazed " on floor or wall facing in required colour and pattern of STILE specification jointed in white cement and pigment over a base of 1:2 grey cement mortar 3/4" thick including washing and filling of joints with slurry of white cement and pigment in desired shape with finishing, cleaning and cost of wax polish etc. complete including cutting tiles to proper profile.	P.Sft	122.77	408.89		
56	Flooring of mosaic (marble chips) tiles of white cement laid flat in 1:2 grey cement mortar over 3/4" thick bed of grey cement mortar 1:2.	P.Sft	69.25	286.02		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
57	Flooring of mosaic marble chips tiles of white cement laid flat in 1:2 Grey Cement mortar over 3/4" thick bed of white cement mortar 1:2.	P.Sft	69.25	267.75		
58	Flooring of mosaic marble chips tiles of white cement laid flat in 1:2 Grey Cement mortar over 3/4" thick bed of white cement mortar 1:2.	P.Sft	69.25	277.87		
59	Rubber flooring (consisting of 12" x 12" x 1/8" rubber tiles, laid on firm foundation)	P.Sft	49.50	239.75	24.14	In case of new floor the base to consist of 4" thick cement concrete 1:4:8 and 1 1/2" thick cement concrete 1:2:4 on top of the former.
60	Flooring of mosaic (marble chips tiles of white cement laid flat in 1:2 white cement mortar, over 3/4" thick bed of white cement mortar 1:2.	P.Sft	54.89	276.13		
61	P/F 3/8" thick Marble Tiles of Approved Quality & Colour & Shade size 8"x4" or 6"x4" in dado Skirting & facing removal tucking of existung plaster surface etc.over 1/2" thick base of cement mortor 1:3 setting of tile in slurry of white cement over motor base 1/c filling & joints & washing the tile with white cemebt slurry curent finishing cleaning & polishing etc, complete (New Work)	P.Sft	89.11	247.28		For analysis of concrete refer to Item No. 5 (I and F) respectively under chapter of concret.
62	P/F 3/8" thick Marble Tiles of Approved Quality & Colour & Shade size 8"x4" or 6"x4" in dado Skirting & facing removal tucking of existung plaster surface etc.over 1/2" thick base of cement mortor 1:3 setting of tile in slurry of white cement over motor base 1/c filling & joints & washing the tile with white cemebt slurry curent finishing cleaning & polishing etc, complete (Old Work)	P.Sft	117.82	277.50		
63	Split tiles 5-1/4"x10-1/2"x3/8" thick matt glazed or double glazed jointed in white cement and laid over 1:2 grey cement sand mortar 3/4" thick including finishing complete (Flooring and facing.)	P.Sft	151.49	515.00		
64	Split tiles 5-1/4"x10-1/2"x3/8" thick Sami glazed jointed in white cement and laid over 1:2 grey cement sand mortar 3/4" thick including finishing complete (Flooring and facing.)	P.Sft	151.49	467.09		
65-c	Split tiles 5-1/4"x10-1/2"x3/8" thick Glossy glazed jointed in white cement and laid over 1:2 grey cement sand mortar 3/4" thick including finishing complete (Flooring and facing.)	P.Sft	151.49	460.33		
65-d	Split tiles 5-1/4"x10-1/2"x3/8" thick un glazed jointed in white cement and laid over 1:2 grey cement sand mortar 3/4" thick including finishing complete (Flooring and facing.)	P.Sft	151.49	453.58		
65-e	Step tiles 5-1/4"x10-1/2"x3/8" thick Mat glazed jointed in white cement and laid over 1:2 grey cement sand mortar 3/4" thick including finishing complete (Flooring and facing.)	P.Sft	151.49	588.71		
66	Applying chemical polishing on existing mosaic /Marble flooring / dado including cleaning, grinding with carborandum stone / sand paper and applying chemical polish as per requirement.	P.Sft	38.04	114.79		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
67	Providing & fixing cement paving blocks flooring having size of 197 x 97 x 60 (mm) of city /quddra / cobble shape with natural colours , having strength b/w 5000 PSI to 8500 PSI i/c filling the joints with hill sand over a bed of 2" thick hill sand or stone dust and laying and compacting in specified manner/ pattern and design etc complete.	P.Sft.	78.22	197.48		
68	Providing & fixing cement paving blocks flooring having size of 197 x 97 x 60 (mm) of city /quddra / cobble shape with pigmented, having strength b/w 5000 psi to 8500 psi i/c filling the joints with hill sand over a bed of 2" thick hill sand or stone dust and laying and compacting in specified manner/ pattern and design etc complete.(Pigmented) (PSI 5000 to 8500e / Tameer Works or Equivalent manufacturer)	P.Sft.	86.14	211.54		
69	Providing & fixing cement paving blocks flooring having size of 197 x 97 x 80 (mm) of city /quddra / cobble shape with natural colours, having strength b/w 5000 psi to 8500 psi i/c filling the joints with hill sand over a bed of 2" thick hill sand or stone dust and laying and compacting in specified manner/ pattern and design etc complete.(PSI 5000 to 8500e / Tameer Works or Equivalent manufacturer)	P.Sft.	86.14	227.51		
70	Providing & fixing cement paving blocks flooring having size of 197 x 97 x 80 (mm) of city /quddra / cobble shape with pigment, having strength b/w 5000 PSI to 8500 PSI i/c filling the joints with hill sand over a bed of 2" thick hill sand or stone dust and laying and compacting in specified manner/ pattern and design etc complete.	P.Sft.	86.14	242.26		
71	P/F Glass Strip 4mm for flooring upto i: depth I/C fixing with cement in flooring with cement spacified pattern & design.	P.Rft	2.08	7.34		
72	16 Providing and laying conglomerate flooring (two coat work) with top layer of ½" thick wearing surface, consisting of one part of cement and two parts of stone chips passing 3/16" sieve, over bottom layer of cement concrete 1:3:6 including surface finishing and dividing in panels thick 1/2":-	P.Sft.	15.45	59.94		
73	16 Providing and laying conglomerate flooring (two coat work) with top layer of ½" thick wearing surface, consisting of one part of cement and two parts of stone chips passing 3/16" sieve, over bottom layer of cement concrete 1:3:6 including surface finishing and dividing in panels:-					
	3/4" thick	P.Sft.	12.47	105.41		
74	16 Providing and laying conglomerate flooring (two coat work) with top layer of ½" thick wearing surface, consisting of one part of cement and two parts of stone chips passing 3/16" sieve, over bottom layer of cement concrete 1:3:6 including surface finishing and dividing in panels:- 1 " Thick	P.Sft.	10.81	117.79		

CHAPTER NO: 9
SURFACE RENDERING

Notes

Plastering, Pointing, White-washing, Colour-washing and Distempering etc.

1 Rates for all finished work include the removal of the surplus debris un-used material and by products.

2 The rate Include the cost of Scaffolding and its removal..

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

Surface Rendering

1	Mud plaster on walls .					Add extra 13% 32% & 51% above the labour rate of ground floor for 2nd 3rd, 4th & subsequently floors respectively according 2,3,5,6,7,8,10,11,12,13, etc. of this Chapter.
	(a) 1/2" (12 mm) thick.	P.Sft	6.78	11.10	25.7	
	(b) 1" thick.	P.Sft	6.31	15.36	25.7	
2	Mud plaster on floor or roof 1" thick.	P.Sft	6.78	13.44		
3	Lime plaster (Ground in mills)				25.1-25.6	
	(a) 1/2" thick 1:1:3	P.Sft	27.33	33.31		
	(b) 1/2" thick 1:1:1	P.Sft	27.33	37.66		
	(c.) 1/2" thick 1:2	P.Sft	27.33	36.58		
	(d) 1/2" thick 2:3	P.Sft	31.19	42.04		
4	Cement lime plaster 1:7:12				25.1 -25.6	
	(a) 1/4" thick.	P.Sft	31.98	34.07		
	(b) 1/2" thick.	P.Sft	31.98	41.09		
5	Cement Neru plaster 1:2 Cement and sand upto 20 ft. (6.10 metre).				25.1 -25.6	
	(a) 1/4" thick.	P.Sft	27.56	38.04		
	(b) 1/2" thick.	P.Sft	27.56	44.62		
6	Lime Neru plaster 1:2 (Lime and surkhi)					
	(a) 3/4" thick	P.Sft	35.15	55.77		
	(b) 1/2" thick	P.Sft	35.15	50.28		
	(c.) 1/4" thick	P.Sft	35.15	42.04		
7	Lime Neru plaster 1:2 with fine finish of Neru plaster mixed with 10% of Cement.				25.1 -25.6	Same as at item 1.
	(a) 1/2" thick.	P.Sft	35.15	51.91		
	(b) 1/4" thick.	P.Sft	35.15	42.92		
8	2" (50 mm) Stucco cement plaster 1:2:4 (Cement sand and Shingle.)	P.Sft	67.92	124.42		
9	Cement plaster 1:2 upto 12' height.				25.1 -25.6	Same as at item 1.
	(a) 3/8" thick	P.Sft	24.75	41.94		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
3	(b) 1/2" thick.	P.Sft	27.33	44.52		
	(c) 3/4" thick.	P.Sft	32.47	59.08		
10	Cement plaster 1:3 upto 12' height.				25.1 -25.6	Same as at item 1.
	(a) 3/8" thick	P.Sft	29.04	38.61		
	(b) 1/2" thick.	P.Sft	28.71	41.47		
	(c) 3/4"thick.	P.Sft	36.73	55.87		
11	Cement plaster 1:4 upto 12' height.				25.1 -25.6	Same as at item 1.
	(a) 3/8" thick	P.Sft	29.11	37.78		
	(b) 1/2" thick.	P.Sft	28.85	39.83		
	(c) 3/4" thick.	P.Sft	36.73	53.82		
12	Cement plaster 1:5 upto 12' height. Upto 20 ft (6.10 metre) height.				25.1 -25.6	Same as at item 1.
	(a) 3/8" thick	P.Sft	29.23	37.02		
	(b) 1/2" thick.	P.Sft	29.07	38.75		
	(c) 3/4" thick.	P.Sft	36.42	52.01		
13	Cement plaster 1:6 upto 12' upto 20 ft height.				25.1 -25.6	Same as at item 1.
	(a) 3/8" thick	P.Sft	29.33	35.87		
	(b) 1/2" thick.	P.Sft	28.33	37.01		
	(c) 3/4" thick.	P.Sft	36.04	49.12		
14(i)	Applying floating coat of Hi Bond (Universal) as a bond coat or as an adhesive link between old & fresh concrete or plaster as directed by Engineer Incharge.	P.Sft	24.85	44.52		
14(ii)	Applying floating coat of Cement 1/32" thick.	P.Sft	17.62	22.63	25.4-25.6	
15	Lime pointing flush upto 20' height including raking joints.				25.8	
	(a) Ratio 1: 1: 1 (Lime sand and surkhi)	P.Sft	24.75	38.74		
	(b) Ratio 1: 2 (Lime sand and surkhi)	P.Sft	24.75	38.10		
16	Lime pointing flush upto 20' height including raking joints.				25.8	
	(a) Ratio 1: 1: 1 (Lime sand and surkhi)	P.Sft	29.13	34.46		
	(b) Ratio 1: 2 (Lime sand and surkhi)	P.Sft	29.13	38.26		
17	Cement pointing flush upto 20' ft height.				25.8	
	(a) Ratio 1: 2	P.Sft	29.90	39.84		
	(b) Ratio 1: 3	P.Sft	29.90	37.69		
18	Cement pointing (1:2) flash on floor.					
	(a) Ratio 1:2	P.Sft	23.17	33.11	25.8	

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
19	Cement pointing struck joints on walls.				25.8	
	(a) Ratio 1:2	P.Sft	31.29	41.23		
	(b) Ratio 1:3	P.Sft	31.29	39.07		
20	Pointing flush on stone work.				25.8	
	(a) In lime mortar Ratio 1:2 (Lime & Sand)	P.Sft	24.75	32.50		
	(b) In cement mortar Ratio 1:3 (Cement & Sand)	P.Sft	24.75	32.54		
	(c) On stone work raised.	-				
	(i) In lime mortar 1:2	P.Sft	41.58	53.43		
	(ii) In mortar 1:3	P.Sft	41.58	54.07		
21	Racking and washing joints of stone masonry (old work)	P.Sft	15.84		25.8	
22	Racking and washing joints of brick masonry (old work).	P.Sft	7.92		25.8	
23	Priming coat of chalk under distemper.	P.Sft	1.25	3.59	25.11	
24	Distempering.					
	(a) One coat (1st coat over priming coat)	P.Sft	6.24	9.78		as per carriage dum No:1
	(b) New Surface (ii) Two coats	P.Sft	7.82	13.66		
	(c) New Surface (iii) Three coats	P.Sft	10.40	17.23		
25	Colour washing					
	1st coat over white washed surface.					
	(a) New Surface	P.Sft	2.29	4.25	25.10	
	(b) Two coats	P.Sft	4.57	6.49		
26	White washing.					
	1st coat over White washed Surface					
	(a) New surface	P.Sft	3.33	4.46	25.9	
	(b) Two coats	P.Sft	4.16	5.86		
	(c) Three coats	P.Sft	5.39	7.78		
27	Gobri leeping.				25.7	
	(a) On walls	P.Sft	2.08	3.54		
	(b) Over roofs	P.Sft	2.24	3.04		
28	Striking joints of burnt bricks in lime or cement mortar.	P.Sft	3.86		25.8	
29	Extra for lime mud or cement plaster and pointing from 12' (20') and above (for each additional 10' height).	P.Sft	5.15			
30	Caulking joints of sleeper wall with sand and coalter.	P.Sft	9.51	26.09		
31	Caulking joints of sleepers with mud and chopped straw.	P.Sft	11.88	15.65		
32	Rough cost/stucco cement plaster 3/4" thick in Proportion of 1:1 1/2" 1 1/2" in cement hill sand and bajri in patterns.	P.Sft	23.96	101.28		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
33	Durocemeing of a approved make and shade in 3 Coats wall Scrubbed into the surface including finishing smooth at any height in any floor.					
i)	1st coat	P.Sft	20.79	38.91		
ii)	2nd & subsequent coat	P.Sft	20.79	34.67		
34	Extra labour rate for making grooves of 1" x 1/4" or 3/4" x 1/2" plastered surface with true edges both vertically and horizontally with uniform depth and, with groove base smoothly finished etc. complete as per instruction of Engineer Incharge.	Per Rft.	31.19			
35	Extra labour rate for making cement plaster pattas/band around straight or carved openings and around the edges of roof slabs, the width not less than 6" with fine finishing as derected by Engineer Incharge.	Per Rft.	57.43			
36.A	Preparing the surface and painting with matt finish I/c rubbing the surface with Bathy (silicon carbide rubbing brick) filling the voids with zink /chalk / plaster of paris mixture, applying first coat premix, making the surface smooth and then painting 3 coats with matt finish of approved make etc: complete .(new surface).	P.Sft	19.21	49.27		
36 . B	2nd & subsequent coat.	P.Sft	15.25	25.78		
37.A	Preparing the surface & painting with matt finish paint of approved make to old matt finish surface.	P.Sft	12.47	30.29		
37 .B	2nd & subsequent coat.	P.Sft	9.69	27.06		
38.A	Preparing the surface and painting with weather coat I/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make.	P.Sft	20.79	39.38		
38.B	2nd & subsequent coat.	P.Sft	14.26	23.60		
39.A	Preparing the surface and painting with weather coat of approved make to old weather coat surface.	P.Sft	21.79	33.00		
39.B	2nd & subsequent coat.	P.Sft	12.55	21.55		
40	Preparing the surface and painting with plastic emulsion paint of approved make I/c rubbing the surface with sand Paper, filling the voids with chalk / plaster of paris and then painting etc. complete.					
A	Three Coat	P.Sft	19.39	38.71		
40.B	2nd & subsequent coat.	P.Sft	11.63	22.66		
41.A	Preparing the surface and painting with plastic emulsion Paint of make (Old surface.)	P.Sft	19.39	33.05		
41.B	2nd & subsequent coat.	P.Sft	41.58	51.05		
42	Extra labour for external surface for distemper / paint / white wash/ colour wash/ weather coat above 20' -0 height using long ladder or jhoola for each coat (for every 10' -0 additional height).	P.Sft	36.63			
43	Preparing the surface and applying rock wall / shield (Natural wall texture) coating to provide durable crust to wall, thickness b/w 2mm to 32mm (1/8") with acrylic co-polymer emulsion, selected marble chips, adhesive and bactericides.	P.Sft.	28.71	82.42		
44	Providing & fixing colour crete jto wall surface to provide, durable crust and aesthetics having thickness upto 3/4" with specified colour having water, fire and temite resistance (upto 20' -0 height).	P.Sft.	49.50	117.32		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

- 45 Add extra labour for rock wall / colour Crete above 20, -0 height requiring scaffolding etc: for every 10' -0 additional height). P.Sft 10.50
- 46 Preparing and applying Graffito/ graphic to wall Surface to provide durable crust and aesthetics having thickness upto 3/4" specified colour having water fire and termite resistance (upto 20"- 0 height) P.Sft 15.64 78.59

CHAPTER NO: 10
WOOD WORK

Notes

- 1 No extra rate to be paid for Sawing as the rates are inclusive of such contingencies.
- 2 Rates for all finished work include the removal of the surplus debris un-used material and by- products..

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
Wood Work						
1	Plain wood work sawn wrought planed & fixed in position including cost of nails & screws etc.				26.1	
a)	Deodar Wood.	P. Cft	2017.69	15356.95		
b)	Shisham Wood	P. Cft	2205.59	17522.97		
2	Plain wood work for sawing, planning wroughting for regulation carries or needles, etc.				26.1	For steel parts of carries the rate & specification as laid down under item 15 at P-of the composite schedule of rates to be followed.
a)	Deodar Wood	P.Cft	1089.06	15259.18		
b)	Shisham Wood	P.Cft	544.53	16921.46		
3	Teak wood wrought framed and fixed in place including chowkhats hold fasts, tower bolts, chocks, cleats, handles, cord with hooks and cost of nails and screws, etc.					
a)	Panelled or panelled and glazed or fully glazed 2" thick.	P.Sft	103.96	8209.68		
b)	Panelled or panelled and glazed or fully glazed 1-3/4" thick.	P.Sft	148.51	7649.22		
4	First class teak wood wrought joinery in wiregauze doors & windows with frames 22 SWGgalvanized iron wire gauze 144 mesh square inches (625mm) including brass fitting complete :					
a)	Framing including wire gauge with ordinary hinges and fixed position 1 3/4" thick. Without spring or spring hinges.	P.Sft	15.40	3398.58		Rate with spring hinges be increased by Rs.10 P.Sft.
b)	Framing including wire gauge with ordinary hinges and fixed position 1 1/2" thick.	P.Sft	38.50	3212.84		
c)	Galvanized wire gauze fixed to chowkhats with 3/4" teak wood strip and screws.	P.Sft	34.65	946.86		
d)	Galvanized wire gauze fixed with 1/2" strips on a separate 2"x2" Teak wood frame for C. Windows.	P.Sft	51.98	3252.51		
5	Expanded metal 1/2" to 3/4"(12mm to 20mm) mesh 16 gauze fixed to chowkhat with 1" cover moulding and screws including teak wood frame 2"x2".	P.Sft	649.73	1479.96		
6	Expanded metal 1/2" to 3/4"(12mm to 20mm) mesh 16 gauze fixed to chowkhat with 1" (25mm) cover moulding & screws.	P.Sft	734.29	2115.08		
7-i	First Class deodar wood wrought joinery in doors and windows etc. panelled or panelled or glazed or fully glazed fixed in position including chowkhat, holdfast, hinges, tower bolt rubber stop cleats/G I clamp,handles and chord with hooks etc. complete (excluding sliding bolts or lock).					
(a)	1 3/4" thick.	P.Sft	344.68	3130.83		
(b)	2" thick.	P.Sft	333.53	3279.20		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
7-ii	Kail wood wrought joinery in doors and windows etc. panelled or glazed or fully glazed fixed in position including chowkhat, holdfast, hinges, tower bolt rubber stop cleats/G I clamp, handles and chord with hooks etc. complete (excluding sliding bolts or lock)					
(a)	1 3/4" thick.	P.Sft	249.34	1313.65		
(b)	2" thick.	P.Sft	249.34	1424.73		
8	Providing and fixing in position, doors, windows and ventilators of 2"x2"x1/4" angle iron frames and 1-3/4" thick commercial ply wood (3 ply) on both sides, including hold fasts, cleats, iron tower bolts, handles, hinges and one mortice lock.	P.Sft	585.17	2995.87		
9	Providing and fixing in position doors, windows and ventilators of first class deodar wood frames, and 1-3/4" thick commercial ply veneer shutters of first class deodar skeleton (Solid Door) and commercial ply wood (3 ply) on both sides including hold fasts, hinges, iron tower bolts, handles and cleats with cord and one Mortice lock and hooks.	P.Sft	567.50	2998.14		
10	Deodar wood framed braced and battened doors & windows complete with iron fitting & fixed in position including chowkhat.					
a)	2 1/4" thick with 1 1/4" thick planks.	P.Sft	221.58	2699.47		
b)	1 3/4" thick with 1" battens and 3/4" planks.	P.Sft	254.87	2378.03		
11	1" (25mm) thick battened doors and windows fitted in position complete with iron fittings without chowkhat.	P.Sft	237.61	1531.33		
12	Deodar battened ledged & braced doors and windows 2 1/4" (56mm) thick (1 1/4" (30mm) thick ledge braces and 1" thick battens complete with iron fittings chowkhats and fixed in position.	P.Sft	238.62	2644.79	26.1 - 26.2 & 26.4 - 26.6	
13	Deodar wood framed with braces and 22 SWGG.I. Sheet facing including hold fast, wooden beading, hinges and locking arrangement, as directed by the Engineer Incharge.				26.1 - 26.2 & 26.4	
a) (i)	G.I. Sheet facing one side	P.Sft	250.60	1682.20		
14	First class deodar wood wrought joinery work in wire gauze doors and windows with 22 SWG galvanized wire gauze 12x12 meshes per square inch (625mm) including iron fittings complete.				26.8 - 26.10	This also includes the cost of wood required for the extra thickness of chowkhats.
a)	Deodar framing 1 3/4" (45mm) with wire gauge fixed in position.	P.Sft	187.01	1559.16		Rate with spring hinges be increased by Rs.1.00 per Sft.
i)	Without Springs or Spring Hinges.					
b)	Deodar Wood framing 1 1/2" (40mm) thick with wire gauze fixed in position.	P.Sft	187.01	1499.48		
i)	Without Springs as Spring Hinges.					
c)	Galvanized wire gauze fixed with 1/2" strips on separate 2"x2" deodar wood frame.	P.Sft	140.26	577.35		
d)	G.I. wire gauze 22 SWG, 12x12 meshes per square inch (625mm) fixed to chowkhat with 3/4" strip on separate frame of deodar wood 2"x2" (50x50mm).	P.Sft	126.23	554.53		
15	Making and fixing trellis doors and windows of deodar wood complete.	P.Sft	208.46	1811.03	26.1 - 26.2	

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
16	1 1/2" thick deodar wood panelled work including frame work (Except doors).	P.Sft	302.52	2346.01	26.1- 26.3	
17	Extra for providing & fixing iron double spring hinges, with brass fittings (it shall include brass finger plate, 6" tower bolts of Door area)	P.No	990.07	1848.16	26.2	
18	Providing and fixing brass spring hinges to wire gauzed doors.	Each	207.91	736.36		
19	Providing and fixing sliding bolt to doors.					
a) i)	Iron sliding bolt 10" (250mm) long.	Each	395.82	2053.32		
ii)	Iron sliding bolt 12" (300mm) long.	Each	395.82	2121.57		
19	Extra for brass fittings to doors and windows, except for hinges, which shall be of iron.					
b) i)	Deodar wood panelled or panelled and glazed or fully glazed.	P.Sft	5.94	83.21		
ii)	Deodar wood wire gauzed shutters.	P.Sft	5.94	54.29		
20	Extra for providing and fixing, approved quality rim lock adjustable over the style surface.	Each	643.54	1960.96		
21	Providing and fixing approved quality mortice lock.	Each	544.53	1039.05		
22	Providing and fixing expanded metal ½" to ¾"(12mm to 20mm) mesh 16 gauge.Fixed to chowkhat with 1" (25mm) thick deodarFixed to chowkhat with 1" (25mm) thick deodarwood strip and screws etc. (12mm to 20mm) mesh 16 gauge.					
a)	Fixed to chowkhat with 1" (25mm) thick deodar wood strip and screws etc.	P.Sft	70.13	797.36		
b)	Fixed with 1" (25mm) cover moulding & screws including deodar wood frame 2"x2" (50x50mm).	P.Sft	84.15	1127.21		
23 (a)	Providing and fixing deodar wood Almirah 12" (225 to 300mm) depth, including boxing with back shelves, shutter and brass fittings etc. complete. irah 9" to	P.Sft	897.64	4501.16	26.1 - 26.3	(I) Reduce the labour by 2.30 P.Sft. Where boxing and back are not provided.
24	Providing and fixing deodar wooden box type ward robe 22" (550mm) deep including ¾" (20mm) thick boxing with back shelves, hanger rods, hard board back drawers, brass fitting locking arrangements, hanger rod internal bolts shoe rods, and mirror measuring 2"x1" complete as per approved design. Deodar wood boxing and shelves & leaves etc.	P.Sft	264.83	3868.73	26.1 - 26.3	(ii) Reduce the composite rate by Rs.30.50 P.Sft. Where boxing and back are not provided.
25	Making and fixing frames for doors, window, & C. Windows.				26.1 - 26.3	
a)	Teak Wood.	P.Sft	249.34	2880.22		
b)	Deodar Wood.	P.Sft	249.34	1233.27		
c)	Shisham Wood	P.Sft	249.34	1091.14		
d)	Kail Wood	P.Sft	249.34	585.22		
26	Making & fixing deodar 1st class wood planking in eave boards etc. planed on both side rebated & fixed including nails & screws, bolt & brackets.				26. - 26.2	
a)	1" (25mm) Thick.	P.Sft	160.39	1192.74		
b)	¾" (20mm) Thick.	P.Sft	160.39	944.05		
c)	½" (12mm) Thick	P.Sft	160.39	688.41		
27	Making and fixing deodar wood shelves, including brackets.					
i)	1" (25mm) Thick.	P.Sft	118.80	1161.82		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
ii)	1½" (40mm) Thick	P.Sft	118.80	1680.52		
iii)	2" (50mm) Thick.	P.Sft	118.80	2199.22		
28	Deodar wood counter including shutters and shelves complete with	P.Sft	578.17	10421.07	26.1 - 26.2	For Pakistan Railways only.
	iron fitting (Railway type plan 0.59 etc.)					
29	Making and fixing cleats for doors and windows				26.1 - 26.2	
a)	including hinges and screws.	Each	273.46	455.90		
b)	ventilator.	Each	273.46	421.58		
30	Hard wood railing of any shape and design including bends and corners fixed in position including polishing complete as directed by Engineer Incharge.				26.1 - 26.2	
a)	Shisham Wood.	P.Rft	528.02	1575.66		
b)	Teak Wood.	P.Rft	528.12	3943.94		
31	Deodar wood dado or Picture Rail 3"x1 ^{1/4} " (50x40mm) as per approved design including moulding and fixed in place, cost of screws nails, plugs and painting complete.	P.Rft	100.98	800.64	26.1 - 26.2	
32	Sawing wood by hand.				26.1	
a)	Soft wood (Deodar Kail, Chir)	P.Cft	20.60			
33	Sawing wood by hand.					
a)	Soft Wood.	P.Cft	12.67			
b)	Hard Wood (Shisham, Kikar, Sal or Teak)	P.Cft	18.85			
33	Sawing wood by machine.					
b)	Hard Wood.	P.Cft	19.80			
34(a)	Sawing U.S.B.Sleepers in halves, cutting ends and fixing.	Each Sleeper	685.97		26.1	
34 (b)	Sawing un-serviceable broad gauge, sleepers in halves, cutting, ends planing squaring and fixing them, into close planking.	Each Sleeper	574.26			
35	Making and fixing sun shade of deodar wood including fixing brackets.(Railway plan Q-35 L/RI.	P.Sft	160.39	1593.03	26.1	
36	Making and fixing 1" (25mm) thick Kail or Chir wooden notice board with frame.	P.Sft	151.26	430.50	26.1	
37	Making deodar 1st class Punkha Pole = 10'x6"x6" (3.047x0.150x0.150M).	Each	673.23	31736.73	26.1	
38	Supplying and fixing 1/4" thick ply wood in panels including supplying and making deodar wood Ist: class frame work for cieling or partition.	P.Sft	13.15	489.07	26.1	
39	Supplying and Fixing masonite, bacolite celutex of card board sheets in pannels includingsupplying making deodar wood 1st class frame work for cieling or partition.	P.Sft	48.73	1203.74	26.1	
40	Dismantling and refixing Eaves boards.	P.Rft	48.09		26.1	
41 a)	Making wooden stair cases complete 2' to 3' (600 to 915mm) wide frame 1½" (40mm) thick planks of deodar wood, including hand rails.	P.Rft	693.05	8763.52	26.1	
41 b)	Making steps from 2" thick Kikar wood planks.	P.Sft	203.96	965.40		
42	Adding and planning wooden sleepers for rail seats.	P.Sft	83.17		26.1	
43	Cutting ends of sleepers for Railway works only.	P.No	44.88		26.1	
44 (a)	Fixing door including chowkhat.	Each	914.83		26.2	
44 (b)	Fixing windows including chowkhat.	Each	478.20			

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
45 (a)	Glazing with panes 4mm thick including cost of putty.	P.Sft	11.46	201.88	26.12	
45 (b)	Glazing with panes 4mm thick using deodar wooden fillets and putty.	P.Sft	33.24	290.72		
46	Glazing with glass panes 24 Oz. to 26 Oz. (680Gm to 737Gm) using putty and deodar wooden fillets.	P.Sft	91.48	315.19	26.1	
47 (a)	Cutting to required sizes and fixing glass panes with putty.	P.Sft	48.09	58.12	26.12	
47 (b)	Cutting to required sizes and fixing glass panes with deodar wooden 1st class fillets and putty.	P.Sft	77.97	178.00		
48	Glazing with plate glass ¼" (6mm) thick including the cost of 1st deodar wood fillets and putty.					
a)	Glazing upto 8 Sft (0.744M²).	P.Sft	31.68	480.20		
b)	Glazing exceeding 8 Sft (0.744M²) and not exceeding 24 Sft (2.230M²)	P.Sft	15.84	491.82		
49	Supplying wooden keys of Kikar wood for Railway truck only.	P.No	67.32	353.42	56	
50	Providing and fixing vention windows and ventilators of 1st class deodar wooden frame and 1st class deodar wooden louvers.	P.Sft	33.66	2040.87		
51	Providing and fixing in position doors, windows and ventilators of first class deodar wood frames, and 1-1/2" thick Teak wood ply shutters of first class deodar wood skeleton (Solid) styles and rails core of partial wood and Teak ply wood (3 ply) on both sides including hold fasts, hinges, iron tower bolts, handles and cleats with cord etc, complete.	P.Sft	716.01	3053.66		
52	Supplying and fixing false ceiling of plaster of paris in pannels including making frame work of deodar wood i/c painting With solignum paint.	P.Sft	139.11	458.84		
53	Providing & fixing in position fixing glass glazing in first class deodar wooden frame and patties frame section 7-1/2 sq-inches etc, complete size of glass 1/4" thick.	P.Sft	96.94	1583.62		
54	First class deodar wood wrought framed and fixed in place including chowkhats hold fasts, tower bolts, chocks, cleats, handles, cord with hooks and cost of nails and screws, etc.					
a)	Panelled or panelled and glazed or fully glazed 1-1/2" thick.	P.Sft	569.27	3326.99		
55	Supplying and fixing commercial ply wood 3-ply in panels including supplying and making deodar wood 2nd class frame work for partition walls.	P.Sft	48.73	785.56		
56	Supplying and fixing Wall Panel sheet in panels including supplying and making deodar wood 2nd class frame work for partition walls.	P.Sft	48.73	1588.38		
57	Providing and fixing in position doors, windows and ventilatorsof first class deodar wood frames, and 1-1/2" thick Teak woodply shutters of 2nd class deodar wood skeleton (Solid) stylesand rails core of partial wood and Teak ply wood (3 ply) on bothsides including hold fasts, hinges, iron tower bolts, handlesand cleats with cord etc, complete.	P.Sft	716.01	2686.73		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
58	Providing and fixing in position doors, windows and ventilators of first class deodar wood frames, and 1-1/2" thick Teak woodply shutters of second class deodar wood skeleton (Solid) styles and rails core of partial wood and commercial ply wood (3 ply) onboth sides including hold fasts, hinges, iron tower bolts, handles and cleats with cord etc, complete.	P.Sft	716.01	2763.94	56	
59	First class Sheesham wood wrought framed and fixed in placeincluding chowkhats hold fasts, tower bolts, chocks, cleats,handles, cord with hooks and cost of nails and screws, etc.Panelled or panelled and glazed or fully glazed 1-1/2" thick.	P.Sft	569.27	3326.99		
60	Providing and fixing with sunk iron screws Wooden Architrave approved design/shape having width not less than 2-1/2 inchesas directed by Engineer Incharge.	P.Rft	5.79	136.40		
61	Providing and fixing Aluminum sheet on doors pasted with glue as per requirement.	P.Sft	51.98	115.38		
62	Galvanized wire gauge 144 mesh per square inch of 22 S.W.G fixed to chowkhats without deodar patti.	P.Sft	66.83	341.78		
63 (a)	Nylon wire gauge 144 mesh per square inch fised to chowkats with 3/4" deodar strips and screws.	P.Sft	140.26	695.52		
63 (b)	Nylon wire gauge 144 mesh per square inch fised to chowkats without deodar patti	P.Sft	66.83	299.17		
64 (a)	Aluminum wire gauge 144 mesh P.Square fixed to chowkats with 3/4" deodar strips and screws.	P.Sft	140.26	474.61		
64 (b)	Aluminium wire gauge 144 mesh P. Square fixed to chowkats.	P.Sft	66.83	341.78		
65	G I expend actual 1/2" to 3/4" mesh 16 gauge fixed to chowkats without deodar patti.	P.Sft	66.83	202.55		
66 (a)	P/F G I expanded metal 1/8 -20 gauge fixed to chowkats with 3/4 " deodar strips and screws.	P.Sft	140.26	556.29		
66 (b)	P/F G I expanded metal 1/8 -20 gauge fixed to chowkats	P.Sft	66.83	202.55		
67 (a)	P/F G I expanded metal 3/32 (20-gauge) fixed to chowkats with 3/4" deodar strips and screws.	P.Sft	140.26	556.29		
67 (b)	P/F G I expanded metal 3/32 (20 -gauge) fixed to chowkats Without deodar strips.	P.Sft	66.83	202.55		
68 (a)	Providing & fixing welded wire mesh square shape (1/2 - 18 gauge) with coating fixing to chowkats with 3/4" deodar strips & screws.	P.Sft	140.26	553.01		
68 (b)	Providing & fixing welded wire mesh square shape (1/2 - 18 gauge) with coating fixed to chowkats.	P.Sft	94.71	175.26		
69 (a)	Providing & fixing crimped G I mesh square shape with 1" opening 12- gauge i/c fixed in chowkats with screws by 3/4 " deodar strips.	P.Sft	140.26	656.91		
69 (b)	Providing & fixing welded wire mesh square shape (1/2 - 18 gauge) with coating fixed to chowkats.	P.Sft	96.32	280.76		
70	Supplying & fixing window blinds (Horizontal / vertical) with plain design and of approved colour i/c fixing in windows with necessary accessories.	P.Sft	50.12	461.14		
71	Supplying & fixing window printed blinds (Horizontal / Vertical) with plain design and of approved colour i/c fixing in windows with necessary accessories. without Print blinds.	P.Sft	50.12	518.49		

CHAPTER NO: 11
PAINTING AND VARNISHING

Notes

- 1 Rates for all finished works include the removal of surplus debris, unused material and by-products.
- 2 For handing all type of material for short leads including Carriage upto 3 Chains, nothing is to be paid extra
- 3 .Where handing and carriage involves and extra lead beyond 3 Chains Carriage for Whole of the distance should be providing the
- 3 The rates including the cost of scaffolding and list removal.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
Painting & Varnishing						
1 (a)	Cleaning painted wood work with oil and water.	P.Sft	2.38	4.39	27.2	
1 (b)	Oiling wood work with boiled linseed oil.	P.Sft	2.38	3.07		
2	Brushing and Scraping blisters of old paints, from wood works.	P.Sft	6.50		27.3	
3	Scraping, brushing and removing old paint from metal surface.	P.Sft	24.72		27.90	
4	Painting old surfaces.				27.1, 27.3 & 27.9	
(a)	Painting corrugated surfaces, patent roofing, etc, with oil paint.					
(i)	First Coat	P.Sft	8.32	13.43		
(ii)	Each Subsequent coat	P.Sft	5.41	8.91		
4(b)	Painted sashes, fan lights, glazed or gaused, door & window					
(i)	First Coat	P.Sft	6.24	7.99		
(ii)	Each Subsequent coat	P.Sft	4.08	6.32		
4(c)	Painting doors & windows any type.					
(i)	First Coat	P.Sft	8.32	13.62		
(ii)	Each Subsequent Coat	P.Sft	6.24	9.74		
4(d)	Painting guard bars, gates of iron bars, gratings, railing (including) standards, braces etc.) and similar open works.					
(i)	First Coat	P.Sft	4.99	7.52		
(ii)	Each Subsequent coat.	P.Sft	4.99	6.33		
4(e)	Painting fillets, framing, skirtings, pipes, gutters and similar linear work, not exceeding 6" in girth.					
i)	First Coat	P.Rft	3.33	6.48		
(ii)	Each Subsequent Coat	P.Rft	3.33	5.08		
4(f)	Painting small detached surface not exceeding one square foot of painted surface.					Details of areas to be worked out both side and shown.
i)	First Coat	P.No	13.76	16.68		
(ii)	Each Subsequent Coat	P.No	11.66	13.42		
4(g)	Painting small detached articles, exceeding one square foot not exceeding three square foot of painted surface.					
(i)	First Coat	P.No	41.58	42.77		
(ii)	Each Subsequent Coat	P.No	20.79	22.93		
5	Painting New Surface:-					
(a)	Preparing surface and painting corrugated surface, patent roofing etc.				27.1, 27.3 & 27.9	
(i)	Priming Coat	P.Sft	8.32	15.55		
(ii)	Each Subsequent Coat of paint.	P.Sft	6.24	9.66		
5(b)	Preparing surface and painting sashes, fan light glazed or gauzed doors etc. any type (including edges).					

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
(i)	Priming coat.	P.Sft	4.16	9.73		
(ii)	Each Subsequent Coat	P.Sft	4.16	7.08		
5(c)	Preparing surface and painting doors and windows any type.(including edges)					
(i)	Priming coat.	P.Sft	4.16	11.30		
(ii)	Each Subsequent Coat.	P.Sft	3.33	7.11		
5(d)	Preparing surface and painting guard bars gates, iron bars grating, railings (including standard braces etc) and similar open work.					
(i)	Priming Coat.	P.Sft	2.91	9.76		
(ii)	Each Subsequent Coat	P.Sft	2.49	7.12		
5 (e)	Preparing surface and painting fillets, framings, skirtings, pipes, gutters and similar, linear work not exceeding 6" inches in with.					
(i)	Priming coat.	P.Rft	3.33	7.92		
(ii)	Each subsequent coat.	P.Rft	2.91	5.01		
(f)	Preparing surface and painting small detached Article not exceeding one square foot of painted surface.					
(i)	Priming coat.	P.No	21.78	33.12		
(ii)	Each subsequent coat.	P.No	19.40	20.50		
5 (g)	Preparing surface and painting of small detached articles exceeding one square foot and not exceeding three square foot of painted surface.					
(i)	Priming coat.	P.No	20.79	65.65		
(ii)	Each subsequent coat.	P.No	17.13	35.53		
5(h)	Extra for knotting and stopping to priming coat on new surface of wood.	P.Sft	0.77	1.35		
6	Applying khanki mixture hot to Barrage gates:-				27.1	
a)	First coat.	P.Sft	2.08	11.31		
b)	Second Coats.	P.Sft	1.87	8.46		
7	French polishing complete.					
a)	On new works.	P.Sft	49.90	65.18	27.6	
(b)	Old work.	P.Sft	31.19	33.42		
8	Varnishing wood work, including cleaning and preparing surface.				27.4	
(a)	First Coat.	P.Sft	0.42	8.47		
(b)	Second Coat.	P.Sft	0.42	4.56		
(c)	Third Coat.	P.Sft	0.42	4.26		
9	Bitumen coating to plastered or cement concrete surface.	P.Sft	7.92	21.83	27.12	
10	Writing letters or figures per letter per inch height	P.No	20.79	24.74	27.1	
11	Coaltar Painting.					
(a)	First Coat laid hot.	P.Sft	2.38	20.92		
11	Coaltar Painting.					
(b)	Second Coat laid hot	P.Sft	3.17	13.92		
12	Solignum Painting.					
(a)	One Coat applied hot.	P.Sft	2.06	5.22		
(b)	Two Coat applied hot.	P.Sft	1.80	8.28		
13	Creosote Painting.					
(a)	One Coat applied hot.	P.Sft	1.29	8.34		
(b)	Two Coat applied hot.	P.Sft	2.57	12.45		
14	Burning off or rubbing down with pumice stone old paint from wood work.	P.Sft	19.01	19.69	27.3	
15	Removing with caustic soda, old paint from wood work.	P.Sft	3.17	6.21	27.3	
16	Painting distance marks for white ground and black lettering on both sides.	P.No	62.37	144.86	27.1	
17	Painting two feet wide with gauges reading to 10th of a foot.	P.No	155.94	264.64	27.1	
18	Painting surrounding rods and other gauges, reading to 10th of a foot.	P.Rft	12.47	143.66	27.1	

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
19	Painting leveling staves:-	P.Rft	336.61	397.41	27.1	
20(a)	Painting and lettering Furlong Stones two Coats of Both Sides .	Each	114.35	138.22	27.1	
20(b)	Painting and lettering Mile Stones two coats of Both Side .	Nos	686.12	1083.34	27.1	
(c)	Painting and lettering Sing posts two coats both sidesg .	Nos	415.83	713.01	27.1	
21	Removing Paint or Varnish From Wall.	P.Sft	14.26		27.1	
22	Scraping from hydraulic gates.				27.1	
(a)	Khanki Paint.	P.Sft	26.70			
(b)	Aluminum paint.	P.Sft	26.70			
23	Painting lettering with shade.	P.square Inch	39.50	41.68	27.1	
24	Scraping rust form old rail or girders.	P.Sft	15.84	19.74	27.1	
25	Chiseling old paint from brick work.	P.Sft	23.76	27.44	27.1	
26	Cleaning glasses with chalk and spirit etc.	P.Sft	21.39		27.1	
27	Cleaning and oiling rafter or rolled steel beams.	P.Sft	5.55	7.02	27.9	
28	Cleaning and Painting Punkha Poles, Including Fixing Hooks.	P.No.	475.29	518.04	27.3	
29	Preparing Surface and Painting With Emulsion Paint.					
(a)	First Coat.	P.Sft	11.23	14.42	27.12	
(b)	2nd Coat and subsequent coat.	P.Sft	10.83	10.90	27.12	
30	Painting with Enamel Paint on Masonry Walls.					
a	1st Coat	P.Sft	10.40	14.67		
b	2nd Coat and each Subsequent coat.	P.Sft	8.32	12.60		
31	Preparing the Surface and Painting with Enamel Paint on Masonry Wells.					
a	1st Coat and each Subsequent coat.	P.Sft	7.23	19.99		
b	2nd Coat and each Subsequent coat.	P.Sft	7.23	14.87		

CHAPTER NO: 12
LINING OF CANALS

(The Rates include curing for specified period wher ever necessary.)

Notes.1 Rates for all finished work include the removal of the surplus debris un-used material and by - product.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
Lining Of Canals						
1	Formation, dressing and preparing sub grade.				28.1 to 28.3	
	(a) In bed.	P.Sft	14.83			
	(b) On slope.	P.Sft	20.12			
2	Stablized layer of cement sand ratio 1:30 , 2"(50 mm) thick on slope.	P.Sft	22.40	40.37	Do	
3	Cement plaster 1/2" thick ratio 1: 1: 0.				Do	
	(a) In bed.	P.Sft	24.83	31.99		
	(b) On slope.	P.Sft	15.27	38.51		
4	Cement plaster 3/8" thick ratio 1: 3.				Do	
	(a) In bed.	P.Sft	29.78	36.19		
	(b) On slope.	P.Sft	31.39	42.06		
5	Cement plaster 1 1/2" thick ratio 1:6					
	(a) In bed.	P.Sft	30.49	56.01		
	(b) On slope.	P.Sft	30.49	56.01		
6	Tiles lining (12" x 6" x 2") in 1:6 cement sand mortar.				28.2	
	(a) In bed.	P.Cft	155.52	387.24		
	(b) On slope.	P.Cft	177.73	409.45		
7	Tiles lining (12" x 6" x 2") in 1:3 cement sand mortar.				28.2 to 28.3	
	(a) In bed.	P.Cft	166.83	467.06		
	(b) On slope.	P.Cft	181.19	497.01		
8	Brick lining (9" x 4 1/2" x 3") in 1:6 cement sand mortar.				28.2	
	(a) In bed.	P.Cft	137.82	447.49		
	(b) On slope.	P.Cft	157.92	467.59		
9	Brick lining (9" x 4 1/2" x 3") in 1:3 cement sand mortar.				28.2	
	(a) In bed.	P.Cft	188.12	450.28		
	(b) On slope.	P.Cft	312.87	476.12		
10	Cement concrete lining ratio 1 : 3 : 6				to 28.1 and	
	(a) In bed.	P.Cft	151.00	423.97		
	(b) On slope.	P.Cft	151.00	377.17		
11	Cement concrete lining ratio 1 : 2 : 4.					
	(a) In bed	P.Cft	79.74	353.68		
	(b) On slope.	P.Cft	114.85	450.80		
12	Cement concrete lining ratio 1 : 4: 8					
	(a) In bed	P.Cft	149.04	348.83		
	(b) On slope.	P.Cft	149.04	348.83		
13	Installation of P.V.C GEO-Membrane.					

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
a	0.25 MM Thick Membrane	P. Sft	24.00	66.27		
b	0.50 MM Thick Membrane	P. Sft	30.00	104.18		
c	0.75 MM Thick Membrane	P. Sft	36.00	147.70		

CHAPTER NO: 13
SHEET PILING

Notes

- 1 Rates for all finished work include the removal of the surplus debris un-used material and by- products.
- 2 For handling all types of materials for short leads including carriage upto 3 chains, nothing is to be paid as extra, Where handling and carriage involves and extra lead beyond 3 chains, carriage for whole of the distance should be

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
Sheet Piling						
1	Cutting Ransom and Laison piles.	Per Cut	411.84		29.1 to 29.3	
2	Cutting Universal piles.	Per Cut	643.50		Do	
3	Driving steel piles 25' to 30' (7.5 to 9M)	P.Sft.	99.02		Do	Rate includes laying and removing of track and also carriage of piles machine, to average distance of 3.0 chains.
4	Driving steel piles more than 15' (4.5M) and less than 25' (7.5M).	P.Sft.	95.06		Do	These rates are for trackle gang only supplied by contractors mechanical stafffon machine will be supplied by Government T-Piles and adjustable junction piles will be counted as 2 piles.
5	Driving steel piles 15' (4.5 M) and under.	P.Sft.	71.29		Do	
6	Dolleying Piles	Each	633.72		29.1 to 29.3	Upto 5' dolleying.
7	Drilling holes in piles.	Each	60.23		Do	
8	Raising and lowering machine.	P.Foot	8911.19		Do	
9	Turning machine 90 ⁰	P.Job	13664.08		Do	
10	Turning Machine 135 ⁰	P.Job	16832.67		Do	
11	Turning Machine 180 ⁰	P.Job	23169.86		Do	
12	Travelling Machine (Light)	P.Chain.	26981.96		Do	
13	Loading and unloading piles.	P.Ton	475.29		29.1 to 29.3	To be made by hand cars or ramps including cost of ropes.
14	Dismantling piling machine	Each	57026.00		29.1 to 29.3	
15	Erecting piling machine	Each	67045.24		Do	
16	Carriage of pile machine under different condition.	Per Chain	10495.49		Do	

CHAPTER NO: 14
RIVER TRAINING PROTECTION AND DIVERSION WORKS

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
River Training Protection And Diversion Works						
1	Cutting pilchi, farash or sarkand including carriage within one mile. (1.6 Km)	P.Cft.	25.35		30.1	1. Measured in shape of compact round bundles and of the size specified for the work. 2. Measure in compact shape before filling at site. 3. Previous lead of collection not be deducted from the next lead of carriage. 4. Cost of supply of pilchi within one mile should not be deducted from the carriage charges to follow there after, from the point of supply of pilchi, subject to the following conditions. (a) If the site of work happens to be within one mile of the source of supply, pilchi will be collected and measured at site of work and no extra carriage would be admissible in such cases. (b) Where the site of the work is situated at more than one mile distance from the source of supply, the point of supply will be fixed carefully by the Engineer -in- charge in such a way that the carriage charges would be arrived at most economically, Extra carriage will be admissible from the place of supply of pilchi which will be considered its starting point. The demarcation of the place of supply of pilchi will be predetermined before the calling of the tenders.
2	Weaving mattresses	Sft.	47.53		30.1	
3	(a) Supplying and filling new Jute bags 4 to 5 Cft. Capacity with sand or earth sewing and stacking in dry.	P.Bag	87.14	124.23	30.1	Rate does not include royalty and extra carriage of material to be filled in bags.
	(b) supplying and filling New jute bags 4 to 5 Cft. Capacity with sand or earth sewing and laying in position under water.	P.Bag	110.90	160.67	30.1	Do
4	Carriage of New Jute bags 4 to 5 Cft capacity filled with sand or earth.					
	(a) First chain.	P.Bag	6.50			
	(b) Second to Fourth chains.	P.Bag	2.38			
	(c) Fifth and subsequent chains.	P.Bag	0.96			
5	Rolling mattresses to river edge and floating after unrolling.					
	(a) Area of mattresses upto 2000 Sft.	P.Sft	14.26		30.1	
	(b) Area of mattresses 2000 to 2500 Sft.	P.Sft	23.76			
	(c) Area of mattresses over 2500 Sft.	P.Sft	27.57			
6	Sewing empty cement bags in sheets.	P. No	23.76		30.1	
7	Carriage of pilchi sarkand or farash or brush wood by boat or road.				30.1	Remarks same as 1,2 and 3 of this chapter.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(a) 1st Chain.	P.Cft.	0.94			
	(b) 2nd Chain	P.Cft.	0.63			
	(c) 3rd Chain to 10th Chain	P.Cft.	0.22			
	(d) 1001 ft. to 5000 ft.	P.Cft.	1.27			
	(e) First mile.	P.Cft.	7.92			
	(f) Second mile.	P.Cft.	6.34			
	(g) Third mile.	P.Cft.	4.75			
	(h) Fourth mile.	P.Cft.	3.80			
	(i) Fifth and subsequent mile.	P.Cft.	3.17			
8	Making compact round pilchi, farash sarkanda round bundles of specified size for the work.	P.Cft.	23.88	33.61		
9	Launching the above and placing in position.	P.Cft.	15.84		30.1	
10	Supplying within 5 chains.				30.1	
	(a) Boulder 9" and above.	P.Cft.	38.82			
	(b) Over size shingle 3" to 9"	P.Cft.	25.67			
	(c) Mixed graded shingle.	P.Cft.	29.63			
11	Supplying Munj or patha trungrs (6" mesh to hold 3 Cft.)	Per No	34.85	350.75	30.1	
12	Weaving wire netting for wire crates with G.I wire No.15.					Note: If a different wire is used the cost of wire can be changed accordingly.
	(a) 6" mesh	P.Sft	24.36	41.82		
	(b) 4" mesh	P.Sft	29.11	54.06		
13	Filling brick bats in crates.	P.Cft.	115.65			
14	Supplying and Filling brick in wire crates and hand packing (including cost of crates).	P.Cft.	298.16		30.1	
15	Filling stone in wire crates and sewing.	P.Cft.	71.29		30.1	
16	Providing and Laying shingle on top of bund including carriage handling of material within 3 chain.	P.Cft.	32.48		30.1	
17	Dumping shingle, spawls and boulders including carriage material within 3 chains.	P.Cft.	67.33		30.1	
18	Extra for Tipping wire crates. (in addition to anchoring boats).	P.Cft.	29.31		30.1	
19	Dumping stone by boat including loading into boat lead within 3 chains.	P.Cft.	63.37		30.1	
20	Extra for anchoring boat.	P.Cft.	5.862			
21	Pilchi revetment including carriage upto one mile (1.6 Km).	P.Sft	7.92	25.92	30.1	
22	Pilchi sarkanda or farash pitching on slope, including supply of pilchi, sarkanda, or farash.	P.Sft	67.33	130.30	30.1	6" layer of pilchi laid header and 5.0 in length alternating with 6" covering of earth for consolidation including pegs and lying with or munjban.
23	Construction groynes single upto 5 feet % Sft height average lead one mile. Length of groynes=100/5 =20ft	P.Sft	9.51	38.68	30.1	Measurement to be made of the area of elevation on one face only.
24	Constructing groynes double upto 10 feet height average lead one mile. Length of Groynes =100/10=10ft	P.Sft	35.65	64.71		
25	Synthetic Bags new / Ist bharti 4 to 5 capacity with sand or earth sewing lying in position under water.	P.Bag	158.43	186.51		

CHAPTER NO: 15

OUTLETS

1 Rates for all finished work include the removal of the surplus debris un-used material and by- products.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
Outlets						
1	Earth work for outlets Excavation refilling ramming and puddling.				17.1 to 18.5	Includes consolidation of earth after refilling.
	(a) Channels discharge upto 50 cusecs.	Job	2614.09			
	(b) Channels discharge from 51- 100 cusecs.	Job	3205.52			
	(c) Channels discharge from 101-200 cusecs.	Job	5307.39			
	(d) Channels discharge from 201/-350 cusecs.	Job	7129.34			
	(e) Channels discharge over 350 cusecs.	Job	10931.65			
2	Dismantling Outlets.				18.1	These rate are for total dismantlement and removal of material. The rates do not include earth work for which rates are given in item No, one
	(a) Old types such as K.G O'S orifice, etc.	Each	2693.30			
	(c) A.P.M. or O.F.H from 2.1 to 3.0 ft.	--do--	5386.61			
	(d) A.P.M. or O.F.H above 3.0 ft.	--do--	6574.83			
	(e) Tail cluster bifurcation.	Each	3960.74			
	(f) Tail cluster trifurcation.	Each	5386.61			
	(g) Tail cluster quadrification.	Each	6574.83			
3	Making temporary A.P.M bircks block and fixing at site.	Each	207.91	1,944.34	21.1 to 21.2	
4	Dismantling walls, taking out temporary A.P.M bricks block and fixing iron block and rebuilding dismantled walls.	Job	2287.06		18.1, 21.1 and 21.2	
5	Dismantling walls and fitting iron block of O.F.oulet.	Each	2494.98		18.1, 21.1 and 21.2	
6	Construction watching and removing bund for outlet built in running water.				17.1 to 17.5	
	(a) Upto 3.0 ft.depth.	Each	6337.19			
7	Adjusting 'B' of tail cluster by dismantling and rebuilding throat walls.	Each	336.61	2,540.16	18.1, 21.1 and 21.2	
8	Adjusting 'Y' of an A.P.M outlet including dismantling and rebuilding.	Each	374.25	4,533.19	18.1 21.1 21.2	
9	Extra labour in fixing an A.P.M. and O.F.outlets blocks including dressing or bricks.				21.1 21.1	Rate to be Rs. 2.25 less in case of O.F outlet where there is no O.F iron block.
	(a) For channel depth of 5.0 ft.	Each	3108.94	3,410.31		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(b) For channel depth of 4.0 ft.	Each	2732.62	3,034.24		
	(c) For channel depth of 3.0 ft.	Each	1871.23	2,172.85		
	(d) For channel depth of 2.0 ft.	Each	1713.22	1,750.39		
	(e) For channel depth of less than 2.0 ft.	Each	1328.70	1,379.91		
10	Repairing damaged reducing collar of Hume pipe outlets.	Each	1372.24	1,779.00		
11	Laying iron pipes of outlet.	Each	60.30		21.1,21.2 & 17.1 to 17.5	
12	Water allowance of constructing outlets or culverts.					At the discretion of Engineering in Charge depending upon the distance and source of
	(i) When canal water is not flowing.	Each	1346.65			
	(ii) When canal water is flowing.	Each	2772.52			
13	Hoisting and placing R.C Slab or stone in position on Outlets or W.C.Culverts.	Each	914.83			
14	Fixing pipe outlet including back filling of earth and puddling.				17.1 to 17.5 and 21.1 to	
	(a) portion under bank.	P.Rft.	245.71	270.85		
	(b) Portion under road beyond bank.	P.Rft.	109.16	129.77		
15	Removing pipe outlet refilling earth and puddling.				17.1 to 17.5	
	(a) Portion under bank.	P.Rft.	217.84			
	(b) Portion under road beyond bank.	P.Rft.	81.86			
16	Changing pipe outlet, removing one pipe and replacing it at the same site with another pipe complete with earth and puddling.					
	(a) Portion under bank.	P.Rft.	301.83	326.96		
	(b) Portion under road beyond bank.	P.Rft.	150.17	175.30		

CHAPTER NO: 16
SINKING OF WELLS

- 1 Rates for all finished work include the removal of the surplus debris un-used material and by- products

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

Sinking Of Wells

- 1 Excavation of well in dry upto 20' below ground level and disposal of soil within one chain. 17.1 to 17.5

(a) In ordinary soil or sand.

(i) From 0' (0 M) to (1.5 M)	P.Cft.	9.82
(ii) From 5.1 (1.55.M) to 10 (3 M) depth.	P.Cft.	11.25
(iii) From 10.1' (3.05) upto 15' (4.5m)depth.	P.Cft.	11.57
(iv) from 15'-1" (4.55 M) to 20' (6M) depth	P.Cft.	13.47

(b) In hard soil.

(i) from 0' (0 M) to 5' (1.5 M) dept	P.Cft.	11.88
(ii) From 5.1'(1.55m) upto 10' (3m)depth	P.Cft.	12.67
(iii)From 10'-1" (3.05 M) to 15' (4.5 M) depth	P.Cft.	14.26
(iv) from 15'-1" (4.55 M) to 20' (6 M) depth	P.Cft.	15.84

(c) In hard strata such shingle gravel etc.

(i)From 0' (M) to 5' (1.5M) depth	P.Cft.	25.35
(ii) from 5'-1" (1.55 M) to 10' (3 M) dept	P.Cft.	26.93
(iii) From 10.1' upto 15' depth.	P.Cft.	28.52
(iv) From 15.1' to 20' depth.	P.Cft.	30.89

- 2 Dry sinking of well including loading and removing excavated material within one chain (30 meter).

(a) In ordinary soil .

(i)from 10'-1" (3.05 M) to 15' (4.5 M) dept	P.Cft.	52.28	
ii) from 15'-1" (4.55 M) to 20' (6 M) dept	P.Cft.	66.54	
iii) from 20'-1" (6.05 M) to 25' (7.5 M) dept	P.Cft.	79.21	
iv) from 25'-1" (7.55 M) to 30' (9 M) dept	P.Cft.	87.14	
v) from 30'-1" (9.05 M) to 35' (10.5 M) dept	P.Cft.	106.15	
(vi) vi) from 35'-1" (10.55 M) to 40' (12 M) depth	P.Cft.	118.82	17.1 to 17.5
vii) from 40'-1" (12.05 M) to 45' (13.5 M) depth	P.Cft.	134.67	
viii) from 45' (13.5 M) to any depth	P.Cft.	145.76	

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

(b) In hard soil.

i) from 10' (3 M) to 15' (4.5 M) dept	P.Cft.	72.88
ii) from 15'-1" (4.55) to 20' (6 M) dept	P.Cft.	85.55
iii) from 20'-1" (6.05 M) to 25' (7.5 M) dept	P.Cft.	99.81
iv) from 25'-1" (7.55 M) to 30' (9 M) dept	P.Cft.	112.49
v) from 30'-1" (9.05 M) to 35' (10.5 M) dept	P.Cft.	126.74
vi) from 35'-1" (10.55 M) to 40' (12 M) depth	P.Cft.	137.83
vii) from 40'-1" (12.05 M) to 45' (13.5 M) dept	P.Cft.	153.72
viii) from 45' (13.5 M) to any depth	P.Cft.	166.35

(c) In hard strata such as shingle gravel etc.

from 10' (3 M) to 15' (4.5 M) dept	P.Cft.	99.81
ii) from 15'-1" (4.5 M) to 20' (6 M) dept	P.Cft.	114.07
iii) from 20'-1" (6.05 M) to 25' (7.5 M) dept	P.Cft.	126.74
iv) from 25'-1" (7.55 M) to 30' (9 M) dept	P.Cft.	128.33
v) from 30'-1" (9.05 M) to 35' (10.5 M) dept	P.Cft.	150.51
vi) from 35'-1" (10.55 M) to 40' (12 M) depth	P.Cft.	166.35
vii) from 40'-1" (12.05 M) to 45' (13.5 M) depth	P.Cft.	179.03
viii) from 45'-1" (13.55 M) to any depth	P.Cft.	188.53

- 3 Wet sinking of wells for depth below spring level by means of devers including all charges for shoring loading and removing excavated material within one chain.

(i) From 0' (0 M) to 10 (3 M)	P.Cft.	83.62
(ii) From 10(3.05 M) to 20' 6 M) depth.	P.Cft.	178.23
(iii) From 20.' upto 30' depth.	P.Cft.	219.36
(iv) From 30 to 40' depth.	P.Cft.	285.17
(v) From 40' to 50' depth.	P.Cft.	220.04
(vi) From 50' to 60' depth.	P.Cft.	354.50
(vii) From 60 to 70' depth.	P.Cft.	363.98
(viii) From 70.to 80' depth.	P.Cft.	372.77
(ix) From 80 (24 M) ' to any depth.	P.Cft.	404.30

- 4 Wet sinking of wells for depth below spring level by means of divers including all charges for shoring loading and removing excavated material within one chain.

(i) From 0'(0 M) to 10(3 M) depth.	P.Cft.	116.68
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7.1 to 17.5

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(ii) From 10 upto 20' depth.	P.Cft.	147.46			
	(iii) From 20' upto 30' depth.	P.Cft.	175.76			
	(iv) From 30 to 40' depth.	P.Cft.	231.70			
	(v) From 40 to 50' depth.	P.Cft.	269.26			
	(vi) From 50' upto 60' depth.	P.Cft.	291.70			
	(vii) From 60' upto 70' depth.	P.Cft.	318.21			
	(viii) From 70' upto 80' depth.	P.Cft.	334.06			
	(ix) From 80 to any depth.	P.Cft.	357.48			
5	Making and fixing in position kinar wood well curb.	P.Cft.	79.30			
6	Laying well curb in position only.	Each	847.00			
7	MAKING R.C.C WELL CRUB	P.Cft.	94.87	743.69		

Note 1. Well curves to be laid at spring level or as deep as possible
2. If plate is available and is supplied by the Government at site of work, higher charges will be recoverable contractor.
3. The wages of crew if supplied by Government, to work the plant will also be recovered in addition to be above charges.
4. The store if supplied will be recovered at actual cost + supervision and storage charges etc.

CHAPTER NO: 17
IRON WORK

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7

Iron Work

1	Small iron work such as gusset plate knees bends, stirrups, rings etc. Including cutting, drilling, reverting, handling, assembling and fixing but excluding erection in position.	P.Cwt.	2079.15	22361.43		
2	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position.	P.Cwt.	2079.15	20366.45		
3	Erection and fitting in position of iron trusses staging of water tanks etc.	P.Cwt.	824.85			
4	Fixing G.I sheet including rivetting etc.	P.Sft.	29.11			
5	Erection C.I tanks upto 20 feet height.	P.Cwt.	1346.54			
6	Erecting rolled steel beams or old rails in roofs etc, erection and fixing in position.	P.Cwt.	804.26			
7	Erecting rolled steel beams or rails erection for posts etc. (other than in roof).	P.Cwt.	390.42			
8	Making bolts and nuts of iron rods.	P.Cwt.	2851.35	26060.23		
9	Cutting rails rolled steel joints and beams with hack saw.					
	(a) Upto 6.0' size.	P.Cut	554.50			
	(b) Above 6.0' size.	P.Cut	831.76			
10	Cutting rails or rolled steel beams of size below 6" with jim.	P.Cut	264.05			
11	Bending rolled steel beams or rails.	Per Bend	739.58			
12	Fixing handles to iron hammers.	Each	321.75			
13	Drilling holes in plates upto 1/2" thick per inch dia or part thereof.	Per hole	105.62			
14	Extra for drilling holes in plates over 1/2" thick per inch dia or part thereof.	Per hole	58.62			
15	(a) Rivetting 1/8" dia.	Each	14.90			
	(b) Extra for every 1/8" dia.	Each	13.09			
16	Cutting out rivets	P.No	47.31			
17	Fitting & erection of gutters of sheet iron.	P.Rft.	175.12			
18	Cutting and fixing iron bars for barred windows.	P.bar	111.55			
19	Cutting G.I Sheets.(2"8")	P.Cut	58.09			
20	Notching web or foot or rail post for housing rail beams.	P.Cut	1552.43			

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
21	Hoop iron netted trellis work fixing fixed with nails.	P.Sft.	79.54			
22	Fixing zinc iron or G.I sheet on table tops.	P.Sft.	46.86			
23	Making & fixing steel grated doors complete with locking arrangement angle iron frame 2" x 2" 3/8" and 3/4" sq. bars 4" centre to center.	P.Sft.	353.60	2345.40		
24	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8" and 3/4" square bars 4" centre to centre with locking arrangement.	P.Sft.	410.19	2726.96		
25	Making & fixing grating in opening including fixing at site with flat iron 2" x 3/8" and 3/4" sq. bars at 4" centre to centre	P.Sft.	63.86	1136.43		
26	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq. Foot of finished grill).	P.Sft.	169.13	1124.10		
27	Supplying and fixing special heavy type steel doors for look - ups with angle iron frame of 2- 1/2" to 2- 1/2" x 3/8" size and shutter of 2" x 2" x 3/8" with 1" diameter M.S bars placed @ 4" center to center with a separate locking box having size of 12" x 12" of M. steel sheet embedded in masonry with proper locking arrangement as per approved design including cost of erection of steel gate and fixing in masonry wall in cement concrete 1: 2: 4 etc. complete, as per instructions of Engineer in charge.	Per.Sft.	670.86	4300.68		
28	Providing and fixing G.I frames /Choukhats of size 7" x 2" or 4 1/2" x 3" for windows using 20 gauge G.I sheet I/c welded hinges and fixing at site with necessary hold fasts, filling with cement sand slurry of ratio 1:6 and repairing the jambs. The cost also i/c all carriage, tools and plants used in making and fixing.	P.Rft.	205.16	908.25		
29	Providing and fixing G.I frames /Choukhats of size 7" x 2" or 4 1/2" x 3" for door using 20 gauge G.I sheet I/c welded hinges and fixing at site with necessary hold fasts, filling with cement sand slurry of ratio 1:6 and repairing the jambs. The cost also i/c all carriage, tools and plants used in making and fixing.	P.Rft.	273.71	690.67		
30	Providing and fixing iron steel grill using solid square bars of size 1/2" x 1/2" placed at 4" I/c and frame of flat iron patti of 3/4" x 3/4" I/c circle shape at 1-0 apart equivalent fitted with screws and pins I/c painting 3 coats with 1st coat of red oxide paint etc.	P.Sft.	234.50	833.27		
31	Providing and fixing iron steel grill door with angle iron frame of 1 1/2" x 1 1/2" x 1/4" and flat iron of 3/4" x 1/4" with approved design and locking arrangement embedded in Masonry as per instructions of Engineer in charge.	P.Sft.	166.18	1037.86		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
32	Providing and fixing iron collapsible gate with channel framing of section 3/4" x 5/16" at 4" I/c revitted with 3/4" x 1/8" flat iron patti placed diagonally and provided with top & bottom T- section 1" x 1" 1/8" along with rollers also I/c locking arrangement and fixing in floor/ceiling or wall etc: completed.	P.Sft.	803.58	1956.05		
33	Providing & fixing G.I sheet roling shutter using 24 gauge G.I sheet for shutter, side iron channel of 12 gauge for rolling on 2" dia C.I pipe I/c bracket of 20 gauge, springs of requisite size and rolling pulley, necessary hold fasts, nuts bolts, welding, greasing, all carriage, T&P required fior making and fixing in masonry bor.	P.Sft.	124.58	742.64		
34 A	Providing & fixing Aluminum expaned metal 3/32 -20 Gauge fixed to chowkats with 3/4" deodar strips & screws.	P.Sft.	173.28	538.87		
34 B	Providing & fixing Aluminume expended metal 3/32- 20 gauge fixed to chowkats.	P.Sft.	66.83	186.94		

CHAPTER NO: 18
MISCELLANEOUS

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	Miscellaneous.					
1	Notice board made of with cement sand mortar. JUNGLE CLEARANCE.	Per Sft.	155.94	177.78		
2	Cutting & removing trees within a distance of 100 feet. (a) Upto 2.50 feet girth.	Each	2762.55			
	(b) From 2.50 feet to 6.0 feet girth.	Each	5396.39			
3	Uprooting stump and removing within 100. From 2.0' to 6.0" girth.	Each	3168.59			
4	Jungle clearance and removing within 100 feet.. (a) Light	Per Sft.	0.40			
	(b) Thick.	Per Sft.	0.79			
	FENCING.					
5	Making & fixing deodar (2nd class) palisade fencing complete.	Per Lft.	932.33	6098.67		
6	Fixing palisade fencing including erecting posts.	Per Lft.	264.05			
7	Making & fixing barbed wire fencing including R.C.C posts upto 4 horizontal and cross wires.	Per Lft.	0.78	389.90		
8	Providing & fixing angle iron vertical plsts for barbed wire fencing of size 2" x 2" 1/4" embedded in RCC /Masonry pillars I/c Making cuts/ holders @ 12" I/c fixing in pillars by chiseling and filling the with cement sand mortar, spraining & finishing the surface.	P.Rft.	176.23	764.10		
9	Providing & fixing barbed wire fencing with 12 gauge - 4 points @ 6" apart barbed wire I/c straightening & fixing in angle iron vertical posts.	P.Rft.	8.49	27.85		
	SURVEYING.					
10	Supplying Bamboo Jhandies 10' to 12' (3m to 2054m) with iron shoes and Flags 15" (375mm) square.	Each	460.75	1082.80		
11	Supplying wooden pegs for leveling 1 - 1/2" (40mm) dia. 6" (150mm) long.	Per Nos	1.29	3.74		
12	Supplying wooden pegs for alignment 2" to 3" (50 to 75mm) dia 9" (225mm) long.	Per Nos	8.75	11.60		
	CANAL AND ROADS					
13	Fixing floating spurs with material from canal plantation within 1 mile lead: (a) Upto 2.0' F.S. depth.	Each	76.24			
	(b) 2.0' to 3.0' F.S depth	Each	101.66			
	(c) 3.0' to 4.0' F.S .depth.	Each	152.48			
	(d) Above 4.0' F.S .depth.	Each	304.97			
14	Staking and bushing from canal plantation with in one mile.					Royalty to be paid to Forest Dptt: or private owner if and when
A	(I) Cutting & supplying un-sharpened pags 3.5' long 3" - 6" dia. Lead within one mile.	Per Nos.	143.63	156.69		Do
	(ii) Sharpening one end of 3.5 long pegs 3" 6" dia.	Per Nos.	16.93			
	(iii) Driving pegs 3.5' long 3" 6" dia. (Driven 1.0' below the available bed or ground average.)	Per Nos.	20.60			
	(iv) Tying pegs with Munj patha Ban (one line, including tying around they pegs).	Per chain for 1 row	158.43	445.08		
	(v) Cutting & supplying brush wood from canal plantation or or Private owners, lead within one mile and wetting between stakes and inter - twining (Thickness of wattled brush wood 1-0' average).	Do	1584.30	8604.30		The composite rates include cost of labour and materials royalty and cost of cutting & supplying brush wood, lead within one mile vide item No. 40.

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
B	(I) Cutting & supplying un-sharpened pegs 4.0' long 3" 6" dia. Lead within one mile.	Per Nos.	163.71	178.59		Same as at item 38 a (I)
	(ii) Sharpening one end of 4.0 long pegs 3" -6" dia.	Per Nos.	18.22			N.B Brush wood obtainable as a by product from the manufacture of kill as, would be supplied free of cost, such quantity of brush wood should be deducted from the total requirement of same as at item 38 a (v)
	(iii) Driving pegs 4.0 long 3" -6" dia (Driven 1.25' below the available bed or ground	Per Nos.	30.87			
	(iv) Tying pegs with Munj Patha Ban (one line, including tying around the pages).	Per chain of one Row	158.43	404.13		
	(v) Cutting & supplying brush wood from canal plantation or private source, (lead within one mile) and wattling between stakes and inter - twining (Thickness of wattled brush wood 1-0' average.	Per chain of one Row	3276.07	8892.07		Same as at item 38 a (v)
C	(I) Cutting & supplying un-sharpened pegs 5.0' long 3" 6" dia. (Lead within one mile.)	Per Nos.	204.78	223.40		Same as at item 38 a (I)
	(ii) Sharpening one end of 5.0 long pegs 3" -6" dia.	Per Nos.	22.18			
	(iii) Driving pegs 5.0 long 3" -6" dia (Driven 1.5' below the available bed or ground average.	Per Nos.	27.73			
	(iv) Tying pegs with Munj Patha Ban (one line, including tying around the pages).	Per chain of one Row	158.43	404.13		
	(v) Cutting & supplying brush wood from canal plantation or private source, (lead within one mile) and wattling between stakes and inter - twining (Thickness of wattled brush wood 1-0' average.	Per chain of one Row	66.24	164.52		
D	(I) Cutting & supplying un-sharpened pegs 6.0" long 3" 6" dia. (Lead within one mile.)	Per Nos.	184.70	201.49		Same as at item 38 a (I)
	(ii) Sharpening one end of 5.0 long pegs 3" -6" dia.	Per Nos.	26.24			
	(iii) Driving pegs 5.0 long 3" -6" dia (Driven 1.5' below the available bed or ground average.	Per Nos.	38.02			
	(iv) Tying pegs with Munj Patha Ban (one line, including tying around the pages).	Per chain of one Row	158.43	404.13		
	(v) Cutting & supplying brush wood from canal plantation or private source, (lead within one mile) and wetting between stakes and inter - twining (Thickness of wattled brush wood 1-0' average.	Per chain of one Row	2693.30	14627.30		Same as at item No 38 (a) (v)
E	(I) Cutting & supplying un-sharpened pegs 6.1" long 8-0' dia. (Lead within one mile.)	Per Nos.	509.65	555.98		Same as at item No 38 (a) (i)
	(ii) Sharpening one end of long pegs 6'-1" to 8"-0" long 4" -8" dia.	Per Nos.	33.27			
	(iii) Driving pegs 6'-1 to 8'-0 long pegs 4" to 8" dia. (Driven 2.0' below the available bed or ground average.	Per Nos.	39.61			
	(iv) Tying pegs with Munj Patha Ban (line, including tying around the pages).	Per chain of one Row	158.43	404.13		
	(v) Cutting & supplying brush wood from canal plantation or private source, (lead within one mile) and wetting between stakes and inter - twining (Thickness of wattled brush wood 1-0' average.	Per chain of one Row	317.44	23959.92		Same as at item No 38 (a) (v)
15	Staking with Bamboos from Market and bushing from canal plantation or private source (Royalty of brush wood to be paid to the Forest Deptt: or cost to private owners if and when required.					
A	(I) Supplying Bamboos 8' -1 " to 10.0' long 2 1/2" to 5" dia.	Per Nos.	353.60			
	(ii) Sharpening one end of Bamboos 8'-1" to 10.0" long 2 1/2" to 5" dia	Per Nos.	29.11			
	(iii) Driving Bamboos 8' -1" to 10'-0" long 2 1/2" to 5" dia (Driven 2.5' below the available bed or ground average.)	Per Nos.	45.94			

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(iv) Tyintg Bamboos 8'-1" to 10'-1" long 2 1/2" to 5" dia . With Munpatha ban (two lines including tying around the bamboos.)	Per chain of one Row	237.64	1138.54		
	(v) Cutting and supplying brush wood from canal plantation or private source (Lead within one mile) and wetting between stakes and intertwining (thickness of wattled brush wood 1.0' average.)	Per chain of one Row	13322.77	31585.30		Same as at item No 38 (a) (v)
B	(I) Supplying Bamboos 10' -1 " to 12.0' long 2 1/2" to 5" dia.	Per Nos.		353.60		
	(ii)Sharpening one end 10'-1" to 12.0" long 2 1/2" to 5" dia	Per Nos.	33.27			
	(iii) Driving Bamboos 10' -1" to 12'-0" long 2 1/2" to 50 dia (Driven 2.75' below the available bed or ground average.)	Per Nos.	49.91			
	(iv) Tying Bamboos 2 1/2" to 5" dia . With B.S.W.G No. 10 wire (two lines including tying around the end only.)	Per chain of one Row	792.15	2799.87		
	(v) Cutting and supplying brush wood from canal plantation or private source (Lead within one mile) and wetting between stakes and intertwining (thickness of wattled brush wood 1.0' average.)	Per chain of one Row	13496.03	31748.53		Same as at item No 38 (a) (v)
C	(I) Supplying Bamboos 12' -1 " to 14.0' long 2 1/2" to 5" dia.	Per Nos.		618.80		
	(ii)Sharpening one end of Bamoos 12'-1" to 14'.0" long 2 1/2" to 5" dia	Per Nos.	37.42			
	(iii) Driving Bamboos 12' -1" to 14'-0" long 2 1/2" to 5" dia (Driven 3.5' below the available bed or ground average.)	Per Nos.	52.28			
	(iv) Tying Bamboos 12'-1" to 14'-1" long 2 1/2" to 5" dia . With B.S.W.G . 10 wire (two lines including tying around the bamboos and third tie around the top end only.)	Per chain of one Row	792.15	2799.87		
	(v) Cutting and supplying brush wood from canal plantation or private source (Lead within one mile) and wetting between stakes and intertwining (thickness of wattled brush wood 1.0' average.)	Per chain of one Row	19225.04	45901.04		Same as at item No 38 (a) (v)
D	(I) Supplying Bamboos 14' -1 " to 16.0' long 2 1/2" to 5" dia.	Per Nos.		707.19		
	(ii)Sharpening one end of Bamoos 14'-1" to 16' long 2 1/2" to 5" dia	Per Nos.	41.58			
	(iii) Driving Bamboos 14' -1" to 16'-0" long 2 1/2" to 5" dia (Driven 4.0' below the available bed or ground average.)	Per Nos.	63.37			
	(iv) Tying Bamboos 2 1/2" to " to 5" . With B.S.W.G .No: 10 wire (two lines including tying around the bamboos and third tie around the top end only.)	Per chain of one Row	792.15	2799.87		
	(v) Cutting and supplying brush wood from canal plantation or private source (Lead within one mile) and wetting between stakes and intertwining (thickness of wattled brush wood 1.0' average.)	Per chain of one Row	22177.19	53065.19		Same as at item No 38 (a) (v)
E	(I) Supplying Bamboos 6' -1 " to 20' long Bamboos 2 1/2" to 5" dia.	Per Nos.		884.01		
	(ii)Sharpening one end of Bamoos 16'-1" to 20' long 2 1/2" to 5" dia	Per Nos.	49.90			
	(iii) Driving Bamboos 16' -1" to 20 long 2 1/2" to 5" dia (Driven 4.0' below the available bed or ground average.)	Per Nos.	76.05			
	(iv) Tyintg Bamboos 2 1/2" to " to 5" With B.S.W.G . 10 wire (two lines including tying around the bamboos and third tie around the top end only.)	Per chain of one Row	792.15	2799.87		
	(v) Cutting and supplying brush wood from canal plantation or private source (Lead within one mile) and wetting between stakes and intertwining (thickness of wattled brush wood 1.0' average.)	Per chain of one Row	27577.49	66889.49		Same as at item No 38 (a) (v)

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
16	Cutting and supplying brush wood from canal plantation or from any other source, within one mile.	Per Cft.	15.84	43.92		1. Royalty to be paid to the Forest Department or cost to the Private owner if and when required.
17	Filling brush wood only thoroughly packed.	Per Cft.	7.92			
18	Fixing enameled iron gauges flush with masonry including cost of hooks.	Per.Lft.	346.52	374.60		
19	Placing boundary pillars in position including digging pits.	Each	166.33			
20	Covering road 10' 12' wide with 3" sarkanda or jungle upto one chain lead.	P.Chain.	1901.16			
21	(a) Gachi pitching 1' thick.	Per Sft.	102.98			
	(b) Gachi pitching done with silt clearance and berm dressing.	Per Sft.	87.14			
	(c) Gachi pitching done with silt clearance and berm dressing. 25 per Cut	Per Cut	166.33			
	HAND PUMPS AND PRESSURE PIPE.					
22	Cutting pipes upto 2" (50mm) dia.	P.Cut	120.37			
23	Cutting pipes above 2" (50mm) dia.	P.Cut	225.43			
24	Threading pipe ends 1 1/2" to 4" (40mm to 100 mm) dia.	Per End	155.44			
25	Assembling 1 1/2" (40mm) dia. Pressure Pipe.	Per Lft.	5.77			
26	Boring & fixing 1 1/2" (40mm) dia. Pressure Pipe.					
	LABOUR FOR 40 LFT.					
	(a) In ordinary soil.	Per Lft.	191.42			
	(b) In clay. (For 40 Lft.)	Per Lft.	376.45			
	(c) In shingle. (For 40 Lft.)	Per Lft.	561.29			
27	Repairs to hand pump pulling out and refitting.	Per Lft.	83.66			
28	Fixing hand pump (Machine only)	Each.	398.97			
	REST HOUSE FURNITURE AND FUEL ETC.					
29	Washing Niwar of bed	P. Bed	1029.79	1293.04		
30	Washing Durries.	Per Sft.	11.88	18.02		
31	Re- canning chairs:					
	(a) (i) Office chairs single plastic canning seat only.	Each.	712.93	790.50		
	(b) (iii) Office chairs single plastic canning back only.	Each.	620.52	999.22		
	(c) (ii) Office chairs double plastic canning seat only.	Each.	429.87	533.30		
	(d) (iv) Office chairs double plastic canning back only.	Each	792.15	844.62		
	(e) (v) Easy chairs single plastic canning seat only.	Each	473.31	575.98		
	(f) (vi) Easy chairs double plastic canning seat only.	Each	1135.41	1469.56		
	(g) (vii) Easy chairs single plastic canning only back and seat in one piece.	Each	2276.11	2580.31		
	(h) (viii) Easy chairs double plastic canning back and seat in one piece or couches canned (area about 16 Sft.). (1.50 Sqm).	Each	15.84	4151.38		
32	Making and fixing Hat Pegs ordinary.	Each	1093.95	2749.50		
33	Weaving charpoy.	Each	1188.22			
34	Sweeping chimneys.	Each	248.21	260.32		
35	Picture railing including making fixing and painting.	Per Lft.	16.73	391.65		
36	Flapping G.I Pipes for bath room drains.	Each	2574.00	2816.19		
37	Cutting fuel wood from plantation.	P.Mand	359.11			
38	Splitting fuel wood	P.Mand	749.37			
39	Burning charcoal including loading unloading and repairing kiln.	P.Mand	1299.08			
40	Filling cement bags with coal and sewing (including cost of strings.)	Per Cft.	29.70	31.17		
41	Plugging 3 times.	P. Acre	8365.50			
42	Leveling dressing and making lawns.	Per Sft.	9.51			
43	Turfing lawns (excluding cost of turf)	Per Sft.	7.92			
44	Supplying Manure (capacity of cart 200 ft. or 0.57 cum)	P.Cart	257.40	573.30		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
45	Supplying and fixing Iron gyration fire places.	P.Sft.	336.61	926.38		
46	Fixing copper flashing including cutting of sheets grooving and reverting.	P.Lft.	126.74			
47	Washing punkha frill.	Each.	396.07			
48	Washing.					
	(a) Table cloth.	Each.	99.02			
	(b) Napkins dusters etc.	Each.	69.47			
49	Silt clearing 10'-0 dia wells and removal of slush outside the compound:-					
	(a) Upto 10' depth of slush	P Well	19011.56			
	(b) Beyond 10' depth of slush	P.Well	38023.13			
	MASONRY WORKS.					
50	Hoisting and placing sleepers for centering including carriage within one chain.	Each.	154.03			
51	Dismantling sleepers from centering including stacking within on chain.	Each.	158.43			
52	Filling expansion joints with bitumen.	P.Lft.	118.82			
	MASONRY WORK.					
53	Dredging Sumps.					
		P.Sump	6337.19			Not less than 5 gang men to be emplyed for each shift to ensure effective In addition to rate for masonry.
54	Maroo Corners.	Each.	514.80			
55	Chamfering sides of head regulators and masonry walls to increase width.	P.Sft.	166.33			
56	Fixing 'U' Bolt in masonry or concrete including leveling and trying for fixing angle iron post.	Each.	504.92			
57	Replacing kaller eaten bricks.	Each	134.65	177.87		
58	Unwatering by hand.	Per Cft.	5.94			
59	Repairing corners of bridges and other hydraulic masonry works.	Each	1039.57	1324.08		
60	Bearing brick ballast screening and stacking					
	(a) 2" ring	Per Cft.	47.53			
	(b) 1-1/2" ring	Per Cft.	55.45			
	(c) 1" ring.	Per Cft.	63.37			
	(d) Jhama Ballast 3/4" ring.	Per Cft.	71.29			
61	Supplying and fixing broken glasses on courtyard walls including 1: 3: 6 cement concrete coping.	P.Lft.	121.77	208.74		
62	Extra labour for drains of bath rooms, etc.	P.Lft.	85.80			
63	Hoisting R.S.Beams and wooden beams and placing in position.	Each	1221.15			
64	Hoisting and placing in position all ballies over roffs.	Each	138.61			
65	Hoisting R.C battens and placing in posion.					
	(a) 5' -6' long	Each.	122.11			
	(b) 6' -7' long	Each.	183.17			
	(c) 7' -8' long	Each.	244.23			
	(d) 8' -9' long	Each.	293.08			
	(e) above 9' long.	Each.	366.34			
66	Hoisting and placing in position R.C through.					
	(a) Upto 10' in length.	Each.	366.34			Applicable only to roof throughs inverted Tees and throughs and for heights of 1st storey only
	(b) 10' to 11 in length.	Each.	488.46			
	(c) 11 to 12 in length.	Each.	610.57			
	(d) 12' to 13 in length.	Each.	666.08			
	(e) 13' to 14' in length.	Each.	732.69			
	(f) 14' to 15' in length.	Each.	814.10			
	(g) 15' to 16' in length.	Each.	915.86			
	(h) 16' to 17' in length.	Each.	1046.70			
	(i) 17' to 18' in length.	Each.	1221.15			
	(j) 18' to 19' in length.	Each.	1332.16			
	(k) 19' to 20' in length.	Each.	1465.38			
67	Hoisting and placing in position R.C shelves.					
	(a) Upto 10' span.	Each.	297.04			
	(b) From 10' to 12' span.	Each.	594.08			

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(c) From 12' to 13' span.	Each.	742.60			
	(d) From 13' to 14' span.	Each.	891.12			
	(e) From 14' to 15' span	Each.	989.13			
	(f) From 15' to 16' span.	Each.	1113.90			
	(g) From 16' to 18' span.	Each.	1485.20			
	(h) From 18' to 20' span.	Each.	2227.80			
68(a)	Laying asphaltic mixture in expansion joints.	P.Lft.	131.50			Material to be paid on actuals.
68(b)	Re-enforced cement Concrete spout i/c fixing in position with top and bottom khurras.	Each.	16.63	20.27		
69	Damp Proof course with cement sand Ratio (1: 2) mixed with dampo .					
	(a) 1 1/2" thick	Per Sft.	48.52	73.47		
	(b) 3/4" thick	Per Sft.	48.52	85.46		
70	Vertical damp proof course of 3/4" thick cement plaster 1: 2 with bitumen at (20 Lbs. Per % Sft.)	Per Sft.	48.52	102.46		
71	laying 2" thick sand and bitumen carpet on top of foundation of oil tank.	Per Hole	42.02	213.72		
72	Cutting hole 4" x 6" in stone masonry or brick wall with chisel, repairing masonry and removing debries within one chain lead.	Per Hole	831.66			Note Same rate to be paid for other type of masonry and R.C C. work.
73	Cutting grooves in stone masonry brick ,masonry or cement , concrete wall and removing debries within one chain lead.	P.Groove.	457.41			
74	Making 1 1/2" x 1 1/2" groove in wall of stone or brick masonry in cement for fixing planks upto 9" deep.	P.Plank	693.05			
75	Drilling holes in stone or brick masonry upto 2" dia per inch depth.	P.Hole	158.43			
76	Grouting concrete between the grooves of gates including shuttering.	Per Cft.	188.12			
77	Chisel dressing concrete surface on sides of grooves.	Per Sft.	6.44			
78	laying and ramming dry ballast or kankar.	Per Cft.	63.37			
79(a)	Petty repairs to the fire place.	Each	582.16	694.34		
(b)	Petty repairs to the fire place (Large fire place).	Each	1205.91	1318.08		
80	Petty repairs to main rooms.	Each	1166.32	1278.49		
81	Petty repairs to small rooms.	Each	603.95	716.12		
82	Petty repairs to Verandah.	Each	2034.23	2146.40		
83	Supplying & fixing in position Aluminum channels framing for hinged doors or made with 5 mm thick tinted glass glazing (Belgium) and Alpha (Japan) locks I/c handles, stoppers etc.					
	(a) Deluxe model (White)	P. Sft.	64.63	1655.83		
	(b) Deluxe model (Bronze).	P. Sft.	64.63	1656.14		
84	Supplying & fixing in position Aluminum channels framing for sliding windows & ventilators of made with 5 mm thick tinted glass glazing (Belgium) & Aluminum fly screen I/c handles stoppers & locking arrangement etc. complete.					
	(a) Deluxe model (White)	P. Sft.	70.12	2386.73		
	(b) Deluxe model (Bronze).	P. Sft.	70.12	2386.73		
85	Supplying & fixing in position Aluminum channels framing for sliding windows & ventilators of made with 5 mm thick tinted glass glazing (Belgium) etc.Complete.					
	(a) Deluxe model (White)	P. Sft.	75.41	1456.02		
	(b) Deluxe model (Bronze).	P. Sft.	86.16	1468.06		
86	Providing & fixing wooden frame of partial wood for Air condition of 1.5 Tons I/c cutting the wall 6" -9" and fixing the frame .The cost also includes cost of picture riling/ beading of 2" -3" width and repairing the surface with cement plaster & making food etc: complete.	Each	2623.87	8560.84		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
87	Providing & fixing G.I frame for Air condition of 1.50 Tons I/c cutting the wall 6" -9" and fixing the frame .The cost also includes cost of picture railing, beading or 2" 3" width & repairing the surface with cement plaster & making good etc: complete.	Each	2891.05	8946.52		
88	Providing & fixing Aluminum sheet 6" to 9" with V-Notch for expansion joints I/c fixing with nails / screws.	P.Lft.	67.32	352.22		
89	Providing & Fixing railing for curtains I/c fixed in wall with clips screwed in gitties etc. complete.	P.Lft.	19.31	395.27		
90	Providing & fixing railing for curtains with deodar wooden patti I/c fixed in wall with screws etc: complete.	P.Lft.	51.48	427.44		
91	Providing Anti-termite treatment by spraying /sprinkling /spreading Neptachler 0.5% Emulsion as an overall pre construction treatment in slab type construction along external foundation trenches of the building over complete parameter of the foundation trench etc, as per directions of Engineer Incharge.	P.Lft.	30.81	74.14		
92(A)	Providing Anti -termite treatment by spraying /sprinkling /spreading Neptachlar 0.5% Emulsion as an overall pre - construction treatment in slab type construction under the slab and along attached perches or entrances etc, complete as per directions of Engineer Incharge.	P.Sft.	5.49	11.46		
92(B)	Providing Ant-termite treatment as a post construction treatment by drilling holes 1" dia in floor @ 3' along the periphery walls at a depth of 18" and injecting Neptachlar 0.5% Emulsion by pressure at 1 little of emulsion in each holes. Also spraying emulsion on doors / window and chowkhats.	P.Sft.	51.93	71.89		
93	Providing and placing in position chip Board 3/4" thick for filling space between expansion joints of buildings.	P.Sft.	1.90	79.12		
94	Cleaning & decontamination of under ground /over head water tank with chemical I/c dewatering and cleaning the walls with hand brush, applying potassium per magnate coat to eliminate all bacteria's germs and removing the algae and vegetal growth and white washing two coats.	P.Gallon	12.69	13.45		
95	Cleaning of septic tank/ soak pit I/c dewatering, removing the sewage and solid wastes and throwing outside the municipal, limits and cleaning the walls ceilings and bottom of tank.	P.Cft.	34.04			
96	Cleaning/ desalting of manhole / inspection chambers I/c cleaning and rodding of connected sewers (Average 50'-0 per M.hole Removing sewage and solid wastes and throwing outside MC limits.	P.M.hole.	1157.02	1230.68		
97	Rewinding of Electric Motor 3 phase, 400/440 volts, 50.cycles with best quality insulated copper wire of required gauge including testing on load with satisfactory result upto one week's time, opening and refitting and replacing the bolts if necessary excluding the cost of worn out material.					
	(2 Poles (2900 RPM)					
a	BHP 1.0	Each	6631.00	25795.60		
b	BHP 5.0	Each	6631.00	86518.60		
c	BHP 7.50	Each	6631.00	114598.60		
d	BHP 10.0	Each	6631.00	142678.60		
e	BHP 15.0	Each	6631.00	170758.60		
f	BHP 20.0	Each	6631.00	198838.60		
g	BHP 30.0	Each	6631.00	226918.60		
h	BHP 40.0	Each	6631.00	254998.60		
i	BHP 50.0	Each	6631.00	283078.60		
j	BHP 60.0	Each	6631.00	311158.60		

S.No.	Description		Unit	Rate (Rs)		Specification	Remarks
				Labour	Composite		
1	2		3	4	5	6	7
k	BHP	75.0	Each	6631.00	339238.60		
l	BHP	80.0	Each	6631.00	367318.60		
m	BHP	100.0	Each	6631.00	395398.60		
n	BHP	150.0	Each	6631.00	423478.60		
o	BHP	200.0	Each	6631.00	451558.60		
(4 Poles (1450 RPM))							
a	BHP	1.0	Each	6631.00	25795.60		
b	BHP	5	Each	6631.00	100558.60		
c	BHP	7	Each	6631.00	128638.60		
d	BHP	10	Each	6631.00	156718.60		
e	BHP	15	Each	6631.00	184798.60		
f	BHP	20	Each	6631.00	212878.60		
g	BHP	30.0	Each	6631.00	240958.60		
h	BHP	40.0	Each	6631.00	269038.60		
i	BHP	50.0	Each	6631.00	297118.60		
j	BHP	60.0	Each	6631.00	325198.60		
k	BHP	75.0	Each	6631.00	353278.60		
l	BHP	80.0	Each	6631.00	381358.60		
m	BHP	100.0	Each	6631.00	409438.60		
n	BHP	150	Each	6631.00	437518.60		
o	BHP	200	Each	6631.00	465598.60		
(6 Poles (960 RPM))							
a	BHP	1.0	Each	6631.00	25795.60		
b	BHP	5.0	Each	6631.00	103366.60		
c	BHP	7.50	Each	6631.00	131446.60		
d	BHP	10.0	Each	6631.00	159526.60		
e	BHP	15.0	Each	6631.00	187606.60		
f	BHP	20.0	Each	6631.00	215686.60		
g	BHP	30.0	Each	6631.00	243766.60		
h	BHP	40.0	Each	6631.00	271846.60		
i	BHP	50.0	Each	6631.00	299926.60		
j	BHP	60.0	Each	6631.00	328006.60		
k	BHP	75.0	Each	6631.00	356086.60		
l	BHP	80.0	Each	6631.00	384166.60		
m	BHP	100.0	Each	6631.00	412246.60		
n	BHP	150.0	Each	6631.00	440326.60		
o	BHP	200.0	Each	6631.00	468406.60		
BUILDING ITEMS							
98	Placing, compacting, finishing and curing of concrete using ordinary Portland Cement/ Sulphate resistant cement / Slag cement as may be required: including screening, washing of aggregates and mixing of constituents using batching plant, transportation by transit mixer, pouring with pump in the required portion to achieve a cylindrical strength in the field as per ACI 214, with the specified consistency i/c the cost of shuttering,, compaction with compactor, excluding the cost of admixture, as approved and directed by the Engineer Incharge.						
	(i) 1450 PSI		Per Cft	99.80	400.55		
	(ii) 2250 PSI		Per Cft	99.80	442.02		
	(iii) 3000 PSI		Per Cft	99.90	805.57		
	(iv) 4000 PSI		Per Cft	99.37	900.31		
	(v) 5000 PSI		Per Cft	98.23	932.81		
	(vi) 6000 PSI		Per Cft	98.23	968.58		
	(vii) 7000 PSI		Per Cft	98.23	1005.89		
IRRIGATION ITEMS							
99	Earth-works by Tractor with scraper including compaction, dressing, leveling etc: complete in accordance to profile in ordinary soil lead upto 100 ft.		Per Cft.	0.43			
100	Earth-work excavation by Hydraulic Excavator lead upto 50-ft.						
	(a) Soft Soil (Slit ashes etc:)		Per Cft.	7.92			

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
	(b) Ordinary Soil	Per Cft.	7.29			
	(c) Hard Soil	Per Cft.	10.14			
101	Filling watering & ramming sweet earth excavated form outside lead upto 10 miles and lift upto 5ft.including cost of sweet earth.	Per Cft.	6.50	0.00		
102	Ploughing Dacca grass with manure as per approved gradient in/c watering,manuring and maintaining for 45 days complete.(exculding the cost of sweet earth).	Per Sft.	4950.93	0.00		
103	Providing and fixing Gutka Brick facing 2 1/2"x 9" x2 1/4" size of approved design set in cement mortar 1:3 i/c filling the joints with white cement slurry colour pigment for matching i/c leveling smooth finishing, curing and scaffolding etc complete as per specification and directed by the Engineer / Incharge.	Per Sft.	111.61	531.28		
104	Natural stone texture tile of required size on wall facing approved design, shape and pattern set in cement sand mortar ratio 1:2 in grey cement 3/4" thick.	Per Sft.	58.06	471.47		
105	Supply and installation of mineral fiber acoustic ceiling (non-directional) perforated pattern size 2'-0"x2-0"x1/2' thick and imported Aluminum truded section in natural anodized finish 10-12 microns coating comprising of main tee runner and edge trim. Suspension shall be made by mean of adjustable suspender of 8 SWG galvanized steel wire and cadmium plated spring clip supported at 4' 0" center to center, suspender shall by fixed to slab beam soffits with nylon anchor 1-1/2 No. 12 round headed steel screws and washer.	Per Sft.	70.20	318.69		
106	S/F wall panels fiber sheet of good quality i/c transporting charges making with aluminum patti of best quality complete in all respect as desired.	Per Sft.	73.71	315.13		
107	Kail wood wrought, joinery in doors and windows etc fixed in position in/c chowkhats hold fasts hinges iron tower bolts chocks cleats handles and cords wit hooks etc kail panel or paneled and glazed or fully glazed 1-3/4" thick (Only Shutters)	Per Sft.	297.02	1334.33		
108	Stone cladding of required size on wall facing of approved design shape and pattern set in cement sand mortar ratio 1:2 in gray cement 3/4" thick in/c washing of joints with net white cement salary and pigment in desire shape in/c cutting and dressing the stone tile to proper profile in/c labour etc complete as per specification as directed by the Engineer / Incharge.	Per Sft.	73.27	541.93		
109	Reparing surface and applying spirit /laquor polish on new ornamental wood work in/c all labour and material approved by the engineer / incharge.	Per Sft.	160.00	250.00		
110	Providing and fixing stainless steel nickle coated stair case railing of 3-1/2" consisting of horizontal 2-1/2"x2-1/2" at bottom and 1-1/2"x1-1/2" vertical tube 12" center to center and 3" steel tube with round ball as directed by engineer / incharge.	Per Rft.	210.60	6598.80		
111	Providing and fixing in position UPVC channels framing of sliding windows and ventilators of unplasticized polyvinyl chloride (UPVC) with fly screen in/c handles stoppers looking arrangement etc complete Deluxe model etc complete as per direction Engineer / Incharge.	Per Sft.	432.96	3468.16		
112	Providing and fixing in position UPVC channels framing for Door of unplasticized polyvinyl chloride (UPVC) with fly screen in/c handles stoppers looking arrangement etc complete Deluxe model etc complete as per direction Engineer / Incharge.	Per Sft.	185.33	3267.66		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
113	Kashi tile (Embraced) of osaka ceramics 6"x6"x3/4" thick on wall facing of approved design and pattern set in cement sand mortar 1:2 in gray cement 3/4" thick.	Per Sft.	140.59	813.39		
114	Making and fixing Notice board lasani / MDF Sheet with lamination coating in/c wooding leping beading cost of hooks nails etc complete.	Per Sft.	140.07	870.82		
115	Providing and fixing stainless steel letters in size 18"x18" inches as per approved font and design in/c cutting drilling in walls fixing with screws and nails scaffolding etc complete as per directed by the engineer / incharge.	Per Nos	753.33	7071.33		
116	Providing and fixing stainless steel letters in size 18"x18" inches as per approved font and design in/c cutting drilling in walls fixing with screws and nails scaffolding etc complete as per directed by the engineer / incharge.	Per Nos	753.33	7071.33		
117	P/F approved quality of door closer in/c fixing on door with screws and adjusting speed on required etc complete.	Per Nos	552.24	13188.24		
118	P/F approved quality of mortice lock.	Per Nos	351.00	2049.84		
119	Making and fixing fiber glass sun shade standard size 3mm sheet (02 layer) molded in panel in/c M.S Pipe 6" dia 20' height at 20' center fixing C.C foundation with M.S Square pipe 1-1/2" x 1-1/2" double kanchi around from with internal M.S Square pipe 2x2 center to center in/c welding assembling etc complete in all respect.	Per Sft.	336.96	2041.46		
120	P/F Granite Strips (5"x1"x1") thick fixed over stair steps of required width set in cement sand mortar 1:2 in gray cement 1"thick in/c washing and filling etc complete.	Per Sft.	120.16	1726.70		
121	Supplying Erection and fixing rolled steel gurdurs (3"x6") of good quality the rate include the rate of material and its labour without painting.	Per Cwt.	2070.76	21893.45		
122	Supplying Erection and fixing rolled steel tee iron of different sizes of good quality the rate include the rate of material and its labour without painting.	Per Cwt.	2446.68	20009.33		
123	Providing and laying colored cover up tiles (Envecreate or Equivalent) size 390x190x40 mm made of Eviscerates or equivalent of approved quality on Wall or as well as facing jointed in white cement and pigment on a base of 1:2 gray cement of joint with slurry of white cement and pigment in dressed shape with finishing cleaning in/c cutting tiles to proper profile upto 20' feet height as per instruction of the engineer / incharge rate including all cost of labour and material etc complete.	Per Sft.	53.13	432.18		
124	Providing and fixing Malaysian ply wood of fair face shuttering in concrete (wood difference of partial wood and malison ply wood)	Per Sft.	40.00	128.64		
125	Providing and laying 2mm thick grip PVC water proofing Membrance over to coat of bitumen black Japan mixed with carosine oil with burning lamp overroof in/c necessary overlaps etc complete.	Per Sft.	94.66	203.30		
126	SOLAR SYSTEM					
i)	Solar Plate 545/550w Mon PERC	P.No		90424.60		
ii)	Maximum Power Point Tracker	P.No		623238.00		
iii)	DC Flex Cable 10mm x 2 Copper	P.Meter		874.15		
iv)	AC Flex Cable 10mm x 3 Copper	P.Meter		1262.66		
v)	GI Angle Iron Structure for Solar Pv Pan (L-3 Fix)	P.No		22987		
vi)	VFD and Backer Box 20x24	P.No		40470.00		
vii)	Grounding / Earthling arrangement with copper plate 12"x12" and 5mm thick with 6mm Copper Cable	P.No		64752.00		
viii)	PV Junction Box 6x4" with heavy duty terminal	P.No		6232.38		

S.No.	Description	Unit	Rate (Rs)		Specification	Remarks
			Labour	Composite		
1	2	3	4	5	6	7
ix)	Control Panel Box (PV Protect)	P.No		10522.20		
x)	AC DC Breaker Box (PV Protect)	P.No		10522.20		
127	SMALL DAMs					
I	Procurement of Water for Small Dams	100 Cft		2591.56		
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GOVERNMENT OF SINDH

SCHEDULE OF RATES

FOR PUBLIC HEALTH ENGINEERING WORKS FINISHED ITEMS

VOLUME - III, PART- II

SEVENTH EDITION 2024

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CHAPTER-I
RATE FOR CARTAGE OF MATERIALS
A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate in Rs.	UNIT	Rate in Rs.	
1	2	3	4	5	6	7

- 1 Cartage of steel, G.I & C.I pipes steel, G.I. F.C & aluminium sheets, boring equipments and other heavy materials i/c fitting by mechanical transport i/c loading unloading and stacking at site.

1 st mile (0. to 1.6 km)	P.M Ton	177.62	P.M Ton	177.62
2 nd mile (1.61 to 3.2 km)	P.M Ton	41.83	P.M Ton	41.83
3 rd mile (3.21 to 4.8 km)	P.M Ton	33.71	P.M Ton	33.71
4 th mile (4.81 to 6.4 km)	P.M Ton	30.90	P.M Ton	30.90
5 th mile (6.41 to 8.0 km)	P.M Ton	28.28	P.M Ton	28.28
6 th mile (8.01 to 9.6 km)	P.M Ton	26.12	P.M Ton	26.12
7 th & subsequent mile	P.M Ton	24.45	P.M Ton	24.45
9 th & subsequent Km				

- 2 Cartage of RCC pipes any class/ASTM/Prestressed with collars by mechanical transport i/c loading unloading and stacking at site.

(a) 100 mm 4" dia.

1 st mile (0. to 1.6 km)	% RM	466.96	%Rft.	142.32
2 nd mile (1.61 to 3.2 km)	% RM	109.98	%Rft.	33.52
3 rd mile (3.21 to 4.8 km)	% RM	88.63	%Rft.	27.01
4 th mile (4.81 to 6.4 km)	% RM	81.25	%Rft.	24.76
5 th mile (6.41 to 8.0 km)	% RM	74.36	%Rft.	22.66
6 th mile (8.01 to 9.6 km)	% RM	68.67	%Rft.	20.93
7 th & subsequent mile	% RM	64.28	%Rft.	19.59
9 th & subsequent Km				

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RATE FOR CARTAGE OF MATERIALS
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S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate in Rs.	UNIT	Rate in Rs.	
1	2	3	4	5	6	7

(b) 150 mm 6" dia.

1 st mile (0. to 1.6 km)	% RM	656.27	%Rft.	200.02
2 nd mile (1.61 to 3.2 km)	% RM	154.57	%Rft.	47.11
3 rd mile (3.21 to 4.8 km)	% RM	124.57	%Rft.	37.97
4 th mile (4.81 to 6.4 km)	% RM	114.18	%Rft.	34.80
5 th mile (6.41 to 8.0 km)	% RM	104.50	%Rft.	31.85
6 th mile (8.01 to 9.6 km)	% RM	96.51	%Rft.	29.41
7 th & subsequent mile	% RM	90.35	%Rft.	27.54
9 th & subsequent Km				

(c) 225 mm 9" dia.

1 st mile (0. to 1.6 km)	% RM	1184.49	%Rft.	361.02
2 nd mile (1.61 to 3.2 km)	% RM	278.98	%Rft.	85.03
3 rd mile (3.21 to 4.8 km)	% RM	224.83	%Rft.	68.52
4 th mile (4.81 to 6.4 km)	% RM	206.09	%Rft.	62.81
5 th mile (6.41 to 8.0 km)	% RM	188.62	%Rft.	57.49
6 th mile (8.01 to 9.6 km)	% RM	174.19	%Rft.	53.09
7 th & subsequent mile	% RM	163.06	%Rft.	49.70
9 th & subsequent Km				

(d) 300 mm 12" dia.

1 st mile (0. to 1.6 km)	% RM	1583.62	%Rft.	482.66
2 nd mile (1.61 to 3.2 km)	% RM	372.98	%Rft.	113.68
3 rd mile (3.21 to 4.8 km)	% RM	300.59	%Rft.	91.61
4 th mile (4.81 to 6.4 km)	% RM	275.53	%Rft.	83.98
5 th mile (6.41 to 8.0 km)	% RM	252.17	%Rft.	76.86
6 th mile (8.01 to 9.6 km)	% RM	232.88	%Rft.	70.98
7 th & subsequent mile	% RM	218.01	%Rft.	66.45
9 th & subsequent Km				

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A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate in Rs.	UNIT	Rate in Rs.	
1	2	3	4	5	6	7

(e) 375 mm 15" dia.

1 st mile (0. to 1.6 km)	% RM	2276.45	%Rft.	693.83
2 nd mile (1.61 to 3.2 km)	% RM	536.16	%Rft.	163.41
3 rd mile (3.21 to 4.8 km)	% RM	432.09	%Rft.	131.70
4 th mile (4.81 to 6.4 km)	% RM	396.08	%Rft.	120.72
5 th mile (6.41 to 8.0 km)	% RM	362.50	%Rft.	110.48
6 th mile (8.01 to 9.6 km)	% RM	334.76	%Rft.	102.03
7 th & subsequent mile	% RM	313.39	%Rft.	95.52
9 th & subsequent Km				

(f) 450 mm 18" dia.

1 st mile (0. to 1.6 km)	% RM	3035.27	%Rft.	925.10
2 nd mile (1.61 to 3.2 km)	% RM	714.88	%Rft.	217.89
3 rd mile (3.21 to 4.8 km)	% RM	576.12	%Rft.	175.59
4 th mile (4.81 to 6.4 km)	% RM	528.10	%Rft.	160.96
5 th mile (6.41 to 8.0 km)	% RM	483.33	%Rft.	147.31
6 th mile (8.01 to 9.6 km)	% RM	446.35	%Rft.	136.04
7 th & subsequent mile	% RM	417.85	%Rft.	127.35
9 th & subsequent Km				

(g) 525 mm 21" dia.

1 st mile (0. to 1.6 km)	% RM	4047.02	%Rft.	1233.47
2 nd mile (1.61 to 3.2 km)	% RM	953.18	%Rft.	290.51
3 rd mile (3.21 to 4.8 km)	% RM	768.16	%Rft.	234.13
4 th mile (4.81 to 6.4 km)	% RM	704.14	%Rft.	214.61
5 th mile (6.41 to 8.0 km)	% RM	644.44	%Rft.	196.42
6 th mile (8.01 to 9.6 km)	% RM	595.14	%Rft.	181.39
7 th & subsequent mile	% RM	557.13	%Rft.	169.81
9 th & subsequent Km				

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A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate in Rs.	UNIT	Rate in Rs.	
1	2	3	4	5	6	7

(h) 600 mm 24" dia.

1 st mile (0. to 1.6 km)	% RM	4552.90	%Rft.	1387.66
2 nd mile (1.61 to 3.2 km)	% RM	1072.32	%Rft.	326.83
3 rd mile (3.21 to 4.8 km)	% RM	864.18	%Rft.	263.39
4 th mile (4.81 to 6.4 km)	% RM	792.16	%Rft.	241.44
5 th mile (6.41 to 8.0 km)	% RM	725.00	%Rft.	220.97
6 th mile (8.01 to 9.6 km)	% RM	669.53	%Rft.	204.06
7 th & subsequent mile	% RM	626.77	%Rft.	191.03
9 th & subsequent Km				

(i) 675 mm 27" dia.

1 st mile (0. to 1.6 km)	% RM	6070.53	%Rft.	1850.21
2 nd mile (1.61 to 3.2 km)	% RM	1429.76	%Rft.	435.77
3 rd mile (3.21 to 4.8 km)	% RM	1152.25	%Rft.	351.19
4 th mile (4.81 to 6.4 km)	% RM	1056.21	%Rft.	321.92
5 th mile (6.41 to 8.0 km)	% RM	966.66	%Rft.	294.63
6 th mile (8.01 to 9.6 km)	% RM	892.71	%Rft.	272.08
7 th & subsequent mile	% RM	835.70	%Rft.	254.71
9 th & subsequent Km				

(j) 750 mm & 825 mm(30" & 33") dia.

1 st mile (0. to 1.6 km)	% RM	7284.64	%Rft.	2220.25
2 nd mile (1.61 to 3.2 km)	% RM	1715.72	%Rft.	522.93
3 rd mile (3.21 to 4.8 km)	% RM	1382.70	%Rft.	421.43
4 th mile (4.81 to 6.4 km)	% RM	1267.45	%Rft.	386.30
5 th mile (6.41 to 8.0 km)	% RM	1160.00	%Rft.	353.55
6 th mile (8.01 to 9.6 km)	% RM	1071.25	%Rft.	326.50
7 th & subsequent mile	% RM	1002.84	%Rft.	305.65
9 th & subsequent Km				

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A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate in Rs.	UNIT	Rate in Rs.	
1	2	3	4	5	6	7

(k) 900,975,1050,1125 & 1200 mm
(36",39",42",45" & 48") dia.

1 st mile (0. to 1.6 km)	% RM	12141.07	%Rft.	3700.42
2 nd mile (1.61 to 3.2 km)	% RM	2859.53	%Rft.	871.54
3 rd mile (3.21 to 4.8 km)	% RM	2304.49	%Rft.	702.38
4 th mile (4.81 to 6.4 km)	% RM	2112.42	%Rft.	643.83
5 th mile (6.41 to 8.0 km)	% RM	1933.33	%Rft.	589.25
6 th mile (8.01 to 9.6 km)	% RM	1785.41	%Rft.	544.17
7 th & subsequent mile	% RM	1671.40	%Rft.	509.42
9 th & subsequent Km				

(l) 1350mm&1650mm(51",54",60",66",
72" & 84") dia.

1 st mile (0. to 1.6 km)	% RM	18211.60	%Rft.	5550.63
2 nd mile (1.61 to 3.2 km)	% RM	4289.29	%Rft.	1307.31
3 rd mile (3.21 to 4.8 km)	% RM	3456.74	%Rft.	1053.56
4 th mile (4.81 to 6.4 km)	% RM	3168.63	%Rft.	965.75
5 th mile (6.41 to 8.0 km)	% RM	2899.99	%Rft.	883.88
6 th mile (8.01 to 9.6 km)	% RM	2678.12	%Rft.	816.25
7 th & subsequent mile	% RM	2507.09	%Rft.	764.13
9 th & subsequent Km				

- 3 Cartage of Fiber Cement (F.C) pressure pipes of any class with collars by mechanical transport i/c loading unloading and stacking at site.

(a) 80 mm 3" dia.

1 st mile (0. to 1.6 km)	% RM	126.85	%Rft.	38.66
2 nd mile (1.61 to 3.2 km)	% RM	29.88	%Rft.	9.11
3 rd mile (3.21 to 4.8 km)	% RM	24.08	%Rft.	7.34
4 th mile (4.81 to 6.4 km)	% RM	22.07	%Rft.	6.73

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A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate in Rs.	UNIT	Rate in Rs.	
1	2	3	4	5	6	7

5 th mile (6.41 to 8.0 km)	% RM	20.20	%Rft.	6.16
6 th mile (8.01 to 9.6 km)	% RM	18.65	%Rft.	5.69
7 th & subsequent mile	% RM	17.46	%Rft.	5.32
9 th & subsequent Km				

(b) 100 mm 4" dia.

1 st mile (0. to 1.6 km)	% RM	221.92	%Rft.	67.64
2 nd mile (1.61 to 3.2 km)	% RM	52.27	%Rft.	15.93
3 rd mile (3.21 to 4.8 km)	% RM	42.12	%Rft.	12.84
4 th mile (4.81 to 6.4 km)	% RM	38.61	%Rft.	11.77
5 th mile (6.41 to 8.0 km)	% RM	35.34	%Rft.	10.77
6 th mile (8.01 to 9.6 km)	% RM	32.64	%Rft.	9.95
7 th & subsequent mile	% RM	30.55	%Rft.	9.31
9 th & subsequent Km				

(c) 150 mm 6" dia.

1 st mile (0. to 1.6 km)	% RM	308.34	%Rft.	93.98
2 nd mile (1.61 to 3.2 km)	% RM	72.62	%Rft.	22.13
3 rd mile (3.21 to 4.8 km)	% RM	58.53	%Rft.	17.84
4 th mile (4.81 to 6.4 km)	% RM	53.65	%Rft.	16.35
5 th mile (6.41 to 8.0 km)	% RM	49.10	%Rft.	14.97
6 th mile (8.01 to 9.6 km)	% RM	45.34	%Rft.	13.82
7 th & subsequent mile	% RM	42.45	%Rft.	12.94
9 th & subsequent Km				

(d) 200 mm 8" dia.

1 st mile (0. to 1.6 km)	% RM	555.02	%Rft.	169.16
2 nd mile (1.61 to 3.2 km)	% RM	130.72	%Rft.	39.84
3 rd mile (3.21 to 4.8 km)	% RM	105.35	%Rft.	32.11
4 th mile (4.81 to 6.4 km)	% RM	96.57	%Rft.	29.43

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A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate in Rs.	UNIT	Rate in Rs.	
1	2	3	4	5	6	7

5 th mile (6.41 to 8.0 km)	% RM	88.38	%Rft.	26.94	
6 th mile (8.01 to 9.6 km)	% RM	81.62	%Rft.	24.88	
7 th & subsequent mile	% RM	76.41	%Rft.	23.29	
9 th & subsequent Km					

(e) 250 mm 10" dia.

1 st mile (0. to 1.6 km)	% RM	823.12	%Rft.	250.88	
2 nd mile (1.61 to 3.2 km)	% RM	193.87	%Rft.	59.09	
3 rd mile (3.21 to 4.8 km)	% RM	156.24	%Rft.	47.62	
4 th mile (4.81 to 6.4 km)	% RM	143.21	%Rft.	43.65	
5 th mile (6.41 to 8.0 km)	% RM	131.07	%Rft.	39.95	
6 th mile (8.01 to 9.6 km)	% RM	121.04	%Rft.	36.89	
7 th & subsequent mile	% RM	113.31	%Rft.	34.54	
9 th & subsequent Km					

(f) 300 mm 12" dia.

1 st mile (0. to 1.6 km)	% RM	1107.93	%Rft.	337.68	
2 nd mile (1.61 to 3.2 km)	% RM	260.95	%Rft.	79.53	
3 rd mile (3.21 to 4.8 km)	% RM	210.30	%Rft.	64.10	
4 th mile (4.81 to 6.4 km)	% RM	192.77	%Rft.	58.75	
5 th mile (6.41 to 8.0 km)	% RM	176.43	%Rft.	53.77	
6 th mile (8.01 to 9.6 km)	% RM	162.93	%Rft.	49.66	
7 th & subsequent mile	% RM	152.52	%Rft.	46.49	
9 th & subsequent Km					

(g) 400 mm 16" dia.

1 st mile (0. to 1.6 km)	% RM	2224.32	%Rft.	677.94	
2 nd mile (1.61 to 3.2 km)	% RM	523.88	%Rft.	159.67	
3 rd mile (3.21 to 4.8 km)	% RM	422.20	%Rft.	128.68	
4 th mile (4.81 to 6.4 km)	% RM	387.01	%Rft.	117.95	

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		UNIT	Rate in Rs.	UNIT	Rate in Rs.	
1	2	3	4	5	6	7

5 th mile (6.41 to 8.0 km)	% RM	354.20	%Rft.	107.95
6 th mile (8.01 to 9.6 km)	% RM	327.10	%Rft.	99.69
7 th & subsequent mile	% RM	306.21	%Rft.	93.33
9 th & subsequent Km				

(h) 450 mm (18" & 20") dia.

1 st mile (0. to 1.6 km)	% RM	2469.37	%Rft.	752.63
2 nd mile (1.61 to 3.2 km)	% RM	581.60	%Rft.	177.26
3 rd mile (3.21 to 4.8 km)	% RM	468.71	%Rft.	142.86
4 th mile (4.81 to 6.4 km)	% RM	429.64	%Rft.	130.95
5 th mile (6.41 to 8.0 km)	% RM	393.22	%Rft.	119.85
6 th mile (8.01 to 9.6 km)	% RM	363.13	%Rft.	110.68
7 th & subsequent mile	% RM	339.94	%Rft.	103.61
9 th & subsequent Km				

(i) 600 mm 24" dia.

1 st mile (0. to 1.6 km)	% RM	3688.43	%Rft.	1124.18
2 nd mile (1.61 to 3.2 km)	% RM	868.72	%Rft.	264.77
3 rd mile (3.21 to 4.8 km)	% RM	700.10	%Rft.	213.38
4 th mile (4.81 to 6.4 km)	% RM	641.75	%Rft.	195.59
5 th mile (6.41 to 8.0 km)	% RM	587.34	%Rft.	179.01
6 th mile (8.01 to 9.6 km)	% RM	542.40	%Rft.	165.32
7 th & subsequent mile	% RM	507.77	%Rft.	154.76
9 th & subsequent Km				

(j) 700 mm 28" dia.

1 st mile (0. to 1.6 km)	% RM	5603.57	%Rft.	1707.88
2 nd mile (1.61 to 3.2 km)	% RM	1319.78	%Rft.	402.25
3 rd mile (3.21 to 4.8 km)	% RM	1063.61	%Rft.	324.17
4 th mile (4.81 to 6.4 km)	% RM	974.96	%Rft.	297.15

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A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate in Rs.	UNIT	Rate in Rs.	
1	2	3	4	5	6	7

5 th mile (6.41 to 8.0 km)	% RM	892.31	%Rft.	271.96	
6 th mile (8.01 to 9.6 km)	% RM	824.04	%Rft.	251.15	
7 th & subsequent mile	% RM	771.41	%Rft.	235.12	
9 th & subsequent Km					

(k) 800 mm 32" dia.

1 st mile (0. to 1.6 km)	% RM	7471.43	%Rft.	2277.18	
2 nd mile (1.61 to 3.2 km)	% RM	1759.71	%Rft.	536.33	
3 rd mile (3.21 to 4.8 km)	% RM	1418.15	%Rft.	432.23	
4 th mile (4.81 to 6.4 km)	% RM	1299.95	%Rft.	396.21	
5 th mile (6.41 to 8.0 km)	% RM	1189.74	%Rft.	362.62	
6 th mile (8.01 to 9.6 km)	% RM	1098.71	%Rft.	334.87	
7 th & subsequent mile	% RM	1028.55	%Rft.	313.49	
9 th & subsequent Km					

(m) 1000 mm 40" dia.

1 st mile (0. to 1.6 km)	% RM	11207.14	%Rft.	3415.77	
2 nd mile (1.61 to 3.2 km)	% RM	2639.56	%Rft.	804.50	
3 rd mile (3.21 to 4.8 km)	% RM	2127.22	%Rft.	648.35	
4 th mile (4.81 to 6.4 km)	% RM	1949.92	%Rft.	594.31	
5 th mile (6.41 to 8.0 km)	% RM	1784.61	%Rft.	543.92	
6 th mile (8.01 to 9.6 km)	% RM	1648.07	%Rft.	502.31	
7 th & subsequent mile	% RM	1542.83	%Rft.	470.23	
9 th & subsequent Km					

- 4 Cartage of U.P.V.C/P.E pipes of any class by mechanical transport i/c loading unloading and stacking at site.

(a) 50 mm 2" dia.

1 st mile (0. to 1.6 km)	% RM	21.14	%Rft.	6.44	
2 nd mile (1.61 to 3.2 km)	% RM	4.98	%Rft.	1.52	
3 rd mile (3.21 to 4.8 km)	% RM	4.01	%Rft.	1.22	
4 th mile (4.81 to 6.4 km)	% RM	3.68	%Rft.	1.12	

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S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate in Rs.	UNIT	Rate in Rs.	
1	2	3	4	5	6	7

5 th mile (6.41 to 8.0 km)	% RM	3.37	%Rft.	1.03
6 th mile (8.01 to 9.6 km)	% RM	3.11	%Rft.	0.95
7 th & subsequent mile	% RM	2.91	%Rft.	0.89
9 th & subsequent Km				

(b) 60 mm 2 1/2" dia.

1 st mile (0. to 1.6 km)	% RM	33.04	%Rft.	10.07
2 nd mile (1.61 to 3.2 km)	% RM	7.78	%Rft.	2.37
3 rd mile (3.21 to 4.8 km)	% RM	6.27	%Rft.	1.91
4 th mile (4.81 to 6.4 km)	% RM	5.75	%Rft.	1.75
5 th mile (6.41 to 8.0 km)	% RM	5.26	%Rft.	1.60
6 th mile (8.01 to 9.6 km)	% RM	4.86	%Rft.	1.48
7 th & subsequent mile	% RM	4.55	%Rft.	1.39
9 th & subsequent Km				

(c) 80 mm 3" dia.

1 st mile (0. to 1.6 km)	% RM	46.25	%Rft.	14.10
2 nd mile (1.61 to 3.2 km)	% RM	10.89	%Rft.	3.32
3 rd mile (3.21 to 4.8 km)	% RM	8.78	%Rft.	2.68
4 th mile (4.81 to 6.4 km)	% RM	8.05	%Rft.	2.45
5 th mile (6.41 to 8.0 km)	% RM	7.37	%Rft.	2.24
6 th mile (8.01 to 9.6 km)	% RM	6.80	%Rft.	2.07
7 th & subsequent mile	% RM	6.37	%Rft.	1.94
9 th & subsequent Km				

(d) 100 mm 4" dia.

1 st mile (0. to 1.6 km)	% RM	77.09	%Rft.	23.49
2 nd mile (1.61 to 3.2 km)	% RM	18.16	%Rft.	5.53
3 rd mile (3.21 to 4.8 km)	% RM	14.63	%Rft.	4.46
4 th mile (4.81 to 6.4 km)	% RM	13.41	%Rft.	4.09

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A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate in Rs.	UNIT	Rate in Rs.	
1	2	3	4	5	6	7

5 th mile (6.41 to 8.0 km)	% RM	12.28	%Rft.	3.74
6 th mile (8.01 to 9.6 km)	% RM	11.34	%Rft.	3.46
7 th & subsequent mile	% RM	10.61	%Rft.	3.23
9 th & subsequent Km				

(e) 125 mm 5" dia.

1 st mile (0. to 1.6 km)	% RM	113.87	%Rft.	34.70
2 nd mile (1.61 to 3.2 km)	% RM	26.82	%Rft.	8.17
3 rd mile (3.21 to 4.8 km)	% RM	21.61	%Rft.	6.59
4 th mile (4.81 to 6.4 km)	% RM	19.81	%Rft.	6.04
5 th mile (6.41 to 8.0 km)	% RM	18.13	%Rft.	5.53
6 th mile (8.01 to 9.6 km)	% RM	16.74	%Rft.	5.10
7 th & subsequent mile	% RM	15.68	%Rft.	4.78
9 th & subsequent Km				

(f) 150 mm 6" dia.

1 st mile (0. to 1.6 km)	% RM	168.14	%Rft.	51.25
2 nd mile (1.61 to 3.2 km)	% RM	39.60	%Rft.	12.07
3 rd mile (3.21 to 4.8 km)	% RM	31.91	%Rft.	9.73
4 th mile (4.81 to 6.4 km)	% RM	29.25	%Rft.	8.92
5 th mile (6.41 to 8.0 km)	% RM	26.77	%Rft.	8.16
6 th mile (8.01 to 9.6 km)	% RM	24.73	%Rft.	7.54
7 th & subsequent mile	% RM	23.15	%Rft.	7.05
9 th & subsequent Km				

(g) 200 mm 8" dia.

1 st mile (0. to 1.6 km)	% RM	274.12	%Rft.	83.55
2 nd mile (1.61 to 3.2 km)	% RM	64.56	%Rft.	19.68
3 rd mile (3.21 to 4.8 km)	% RM	52.03	%Rft.	15.86
4 th mile (4.81 to 6.4 km)	% RM	47.69	%Rft.	14.54

CHAPTER-I
RATE FOR CARTAGE OF MATERIALS
A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate In Rs.	UNIT	Rate In Rs.	
1	2	3	4	5	6	7

5 th mile (6.41 to 8.0 km)	% RM	43.65	%Rft.	13.30
6 th mile (8.01 to 9.6 km)	% RM	40.31	%Rft.	12.29
7 th & subsequent mile	% RM	37.74	%Rft.	11.50
9 th & subsequent Km				

(h) 250 mm 10" dia.

1 st mile (0. to 1.6 km)	% RM	453.17	%Rft.	138.12
2 nd mile (1.61 to 3.2 km)	% RM	106.73	%Rft.	32.53
3 rd mile (3.21 to 4.8 km)	% RM	86.02	%Rft.	26.22
4 th mile (4.81 to 6.4 km)	% RM	78.85	%Rft.	24.03
5 th mile (6.41 to 8.0 km)	% RM	72.16	%Rft.	21.99
6 th mile (8.01 to 9.6 km)	% RM	66.64	%Rft.	20.31
7 th & subsequent mile	% RM	62.38	%Rft.	19.01
9 th & subsequent Km				

(i) 300 mm 12" dia.

1 st mile (0. to 1.6 km)	% RM	616.04	%Rft.	187.76
2 nd mile (1.61 to 3.2 km)	% RM	145.09	%Rft.	44.22
3 rd mile (3.21 to 4.8 km)	% RM	116.93	%Rft.	35.64
4 th mile (4.81 to 6.4 km)	% RM	107.18	%Rft.	32.67
5 th mile (6.41 to 8.0 km)	% RM	98.10	%Rft.	29.90
6 th mile (8.01 to 9.6 km)	% RM	90.59	%Rft.	27.61
7 th & subsequent mile	% RM	84.81	%Rft.	25.85
9 th & subsequent Km				

CHAPTER-I
RATE FOR CARTAGE OF MATERIALS
A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate In Rs.	UNIT	Rate In	
1	2	3	4	5	6	7

(j) 350 mm 14" dia.

1 st mile (0. to 1.6 km)	% RM	888.37	%Rft.	270.76
2 nd mile (1.61 to 3.2 km)	% RM	209.23	%Rft.	63.77
3 rd mile (3.21 to 4.8 km)	% RM	168.62	%Rft.	51.39
4 th mile (4.81 to 6.4 km)	% RM	154.57	%Rft.	47.11
5 th mile (6.41 to 8.0 km)	% RM	141.46	%Rft.	43.12
6 th mile (8.01 to 9.6 km)	% RM	130.64	%Rft.	39.82
7 th & subsequent mile	% RM	122.30	%Rft.	37.27
9 th & subsequent Km				

(k) 400 mm 16" dia.

1 st mile (0. to 1.6 km)	% RM	1040.66	%Rft.	317.18
2 nd mile (1.61 to 3.2 km)	% RM	245.10	%Rft.	74.70
3 rd mile (3.21 to 4.8 km)	% RM	197.53	%Rft.	60.20
4 th mile (4.81 to 6.4 km)	% RM	181.06	%Rft.	55.19
5 th mile (6.41 to 8.0 km)	% RM	165.71	%Rft.	50.51
6 th mile (8.01 to 9.6 km)	% RM	153.04	%Rft.	46.64
7 th & subsequent mile	% RM	143.26	%Rft.	43.66
9 th & subsequent Km				

(l) 450 mm 18" dia.

1 st mile (0. to 1.6 km)	% RM	1214.11	%Rft.	370.04
2 nd mile (1.61 to 3.2 km)	% RM	285.95	%Rft.	87.15
3 rd mile (3.21 to 4.8 km)	% RM	230.45	%Rft.	70.24
4 th mile (4.81 to 6.4 km)	% RM	211.24	%Rft.	64.38
5 th mile (6.41 to 8.0 km)	% RM	193.33	%Rft.	58.93
6 th mile (8.01 to 9.6 km)	% RM	178.54	%Rft.	54.42
7 th & subsequent mile	% RM	167.14	%Rft.	50.94
9 th & subsequent Km				

CHAPTER-I
RATE FOR CARTAGE OF MATERIALS
A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate In Rs.	UNIT	Rate In	
1	2	3	4	5	6	7

(m) 500 mm 20" dia.

1 st mile (0. to 1.6 km)	% RM	1214.11	%Rft.	370.04
2 nd mile (1.61 to 3.2 km)	% RM	285.95	%Rft.	87.15
3 rd mile (3.21 to 4.8 km)	% RM	230.45	%Rft.	70.24
4 th mile (4.81 to 6.4 km)	% RM	211.24	%Rft.	64.38
5 th mile (6.41 to 8.0 km)	% RM	193.33	%Rft.	58.93
6 th mile (8.01 to 9.6 km)	% RM	178.54	%Rft.	54.42
7 th & subsequent mile	% RM	167.14	%Rft.	50.94
9 th & subsequent Km				

(n) 600 mm 24" dia.

1 st mile (0. to 1.6 km)	% RM	1618.81	%Rft.	493.39
2 nd mile (1.61 to 3.2 km)	% RM	381.27	%Rft.	116.21
3 rd mile (3.21 to 4.8 km)	% RM	307.27	%Rft.	93.65
4 th mile (4.81 to 6.4 km)	% RM	281.66	%Rft.	85.84
5 th mile (6.41 to 8.0 km)	% RM	257.78	%Rft.	78.57
6 th mile (8.01 to 9.6 km)	% RM	238.05	%Rft.	72.56
7 th & subsequent mile	% RM	222.85	%Rft.	67.92
9 th & subsequent Km				

(o) 710 mm

1 st mile (0. to 1.6 km)	% RM	728.46	%Rft.	222.03
2 nd mile (1.61 to 3.2 km)	% RM	171.57	%Rft.	52.29
3 rd mile (3.21 to 4.8 km)	% RM	138.27	%Rft.	42.14
4 th mile (4.81 to 6.4 km)	% RM	126.75	%Rft.	38.63
5 th mile (6.41 to 8.0 km)	% RM	116.00	%Rft.	35.36
6 th mile (8.01 to 9.6 km)	% RM	107.12	%Rft.	32.65
7 th & subsequent mile	% RM	100.28	%Rft.	30.57
9 th & subsequent Km				

CHAPTER-I
RATE FOR CARTAGE OF MATERIALS
A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate In Rs.	UNIT	Rate In Rs.	
1	2	3	4	5	6	7

(p) 800 mm

1 st mile (0. to 1.6 km)	% RM	910.58	%Rft.	277.53
2 nd mile (1.61 to 3.2 km)	% RM	214.46	%Rft.	65.37
3 rd mile (3.21 to 4.8 km)	% RM	172.84	%Rft.	52.68
4 th mile (4.81 to 6.4 km)	% RM	158.43	%Rft.	48.29
5 th mile (6.41 to 8.0 km)	% RM	145.00	%Rft.	44.19
6 th mile (8.01 to 9.6 km)	% RM	133.91	%Rft.	40.81
7 th & subsequent mile	% RM	125.35	%Rft.	38.21
9 th & subsequent Km				

(q) 1000 mm

1 st mile (0. to 1.6 km)	% RM	1456.93	%Rft.	444.05
2 nd mile (1.61 to 3.2 km)	% RM	343.14	%Rft.	104.59
3 rd mile (3.21 to 4.8 km)	% RM	276.54	%Rft.	84.29
4 th mile (4.81 to 6.4 km)	% RM	253.49	%Rft.	77.26
5 th mile (6.41 to 8.0 km)	% RM	232.00	%Rft.	70.71
6 th mile (8.01 to 9.6 km)	% RM	214.25	%Rft.	65.30
7 th & subsequent mile	% RM	200.57	%Rft.	61.13
9 th & subsequent Km				

(r) 1200 mm

1 st mile (0. to 1.6 km)	% RM	2428.21	%Rft.	740.08
2 nd mile (1.61 to 3.2 km)	% RM	571.91	%Rft.	174.31
3 rd mile (3.21 to 4.8 km)	% RM	460.90	%Rft.	140.48
4 th mile (4.81 to 6.4 km)	% RM	422.48	%Rft.	128.77
5 th mile (6.41 to 8.0 km)	% RM	386.67	%Rft.	117.85
6 th mile (8.01 to 9.6 km)	% RM	357.08	%Rft.	108.83
7 th & subsequent mile	% RM	334.28	%Rft.	101.88
9 th & subsequent Km				

CHAPTER-I
RATE FOR CARTAGE OF MATERIALS
A-CARRIAGE OF MATERIALS BY MECHANICAL TRANSPORT

S #	DESCRIPTION	S.I UNITS		IMPERIAL UNITS		REMARKS
		UNIT	Rate In Rs.	UNIT	Rate In Rs.	
1	2	3	4	5	6	7

NOTES:-

1. The rates are applicable to carriage of materials on pucca roads only. For Katcha road allowance of 25% extra shall be allowed for 2nd and subsequent rates. Rates upto 1st mile is hower common to both Katcha & Pucca Road.

2. For hilly area 25% above the rates in the plain area shall be allowed for total mileage covered.

3. In case of articles longer than 15 ft. or (4.75M) carried in trucks the following additional factor shall be allowed on the usual rates.

(i) Above 15 ft. to 25 ft. (4.57 to 7.62 M) 1.5 times.

(ii) Above 25 ft. (7.62 M) 2 times.

The length measured shall not be actual length, but the length of the consignment as actually received.

The term mile whenever used is to means statule mile.

The term Km denotes Kilometers.

The term RM denotes Running Meter.

CHAPTER-II
RATE FOR FINISHED ITEM OF WORKS.

SCHEDULE FOR THE ESTIMATION OF WORKS									
S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

A- Providing, Laying and Jointing RCC pipes (Cement Collar Joints).

- 1 Providing, Laying RCC pipes & Collars of Class 'A' and fixing in trench i/c cutting, fitting and jointing with maxphalt composition and cement mortar (1:1) i/c testing with water to a head of 4.5 meter or 15 ft.

a)	80 mm (3" dia)	R.M	---	604.08	Rft.	---	184.11
b)	100 mm (4" dia)	R.M	---	776.89	Rft.	---	236.78
c)	150 mm (6" dia)	R.M	---	1036.90	Rft.	---	316.03
d)	225 mm (9" dia)	R.M	---	1234.19	Rft.	---	376.16
e)	300 mm (12" dia)	R.M	---	1850.82	Rft.	---	564.10
f)	375 mm (15" dia)	R.M	---	2321.55	Rft.	---	707.57
g)	450 mm (18" dia)	R.M	---	2695.93	Rft.	---	821.68
h)	525 mm (21" dia)	R.M	---	3455.71	Rft.	---	1053.25
i)	600 mm (24" dia)	R.M	---	3894.33	Rft.	---	1186.93
j)	675 mm (27" dia)	R.M	---	4732.84	Rft.	---	1442.50
k)	750 mm (30" dia)	R.M	---	5430.00	Rft.	---	1654.98
l)	900 mm (36" dia)	R.M	---	7787.79	Rft.	---	2373.60
m)	1050 mm (42" dia)	R.M	---	12218.63	Rft.	---	3724.06
n)	1125 mm (45" dia)	R.M	---	13137.27	Rft.	---	4004.04
o)	1200 mm (48" dia)	R.M	---	15982.86	Rft.	---	4871.34
p)	1275 mm (51" dia)	R.M	---	17864.98	Rft.	---	5444.98
q)	1350 mm (54" dia)	R.M	---	22187.91	Rft.	---	6762.54
r)	1500 mm (60" dia)	R.M	---	28649.88	Rft.	---	8732.06

- 2 Providing, Laying RCC pipes & Collars of Class 'B' and fixing in trench i/c cutting, fitting and jointing with maxphalt composition and cement mortar (1:1) i/c testing with water to a head of 22.5 meter or 75 ft.

a)	80 mm (3" dia)	R.M	---	643.57	Rft.	---	196.15
b)	100 mm (4" dia)	R.M	---	825.32	Rft.	---	251.54

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

c)	150 mm (6" dia)	R.M	---	1090.25	Rft.	---	332.29		
d)	225 mm (9" dia)	R.M	---	1266.04	Rft.	---	385.87		
e)	300 mm (12" dia)	R.M	---	2102.57	Rft.	---	640.83		
f)	375 mm (15" dia)	R.M	---	2668.36	Rft.	---	813.28		
g)	450 mm (18" dia)	R.M	---	3073.56	Rft.	---	936.78		
h)	525 mm (21" dia)	R.M	---	3944.45	Rft.	---	1202.21		
i)	600 mm (24" dia)	R.M	---	4429.95	Rft.	---	1350.18		
j)	675 mm (27" dia)	R.M	---	5209.53	Rft.	---	1587.79		
k)	750 mm (30" dia)	R.M	---	5981.06	Rft.	---	1822.94		
l)	900 mm (36" dia)	R.M	---	8680.29	Rft.	---	2645.62		
m)	1050 mm (42" dia)	R.M	---	13167.32	Rft.	---	4013.20		
n)	1125 mm (45" dia)	R.M	---	14190.43	Rft.	---	4325.03		
o)	1200 mm (48" dia)	R.M	---	17525.88	Rft.	---	5341.63		

3 Providing, Laying RCC pipes & Collars of Class 'C' and fixing in trench i/c cutting, fitting and jointing with maxphalt composition and cement mortar (1:1) i/c **Testing** with water to a head of 45 meter or 150 ft.

a)	80 mm (3" dia)	R.M	---	743.61	Rft.	---	226.64		
b)	100 mm (4" dia)	R.M	---	951.51	Rft.	---	290.01		
c)	150 mm (6" dia)	R.M	---	1251.70	Rft.	---	381.50		
d)	225 mm (9" dia)	R.M	---	1472.90	Rft.	---	448.92		
e)	300 mm (12" dia)	R.M	---	2490.86	Rft.	---	759.18		
f)	375 mm (15" dia)	R.M	---	3209.92	Rft.	---	978.34		
g)	450 mm (18" dia)	R.M	---	3672.06	Rft.	---	1119.19		

NOTES:-

- (1) The RCC pipes, collars and materials will be supplied by the Contractor and shall be of approved manufacturer and confirm to standard specification laid down in Government of Pakistan Schedule of Rates Volume I part I & II (Specifications of materials of construction) 1964 & (Specification for execution of works) 1967.
- (2) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (3) The rates of material are at source and are exclusive of carriage charges.
- (4) All leaks and other defects, if any, shall be made good by the contractor at his own cost.
- (5) If sulphate resisting cement is used, the difference of cost in ordinary cements and sulphate resisting cement at source should be paid seperately.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

B- Providing, Laying and Jointing RCC ASTM pipes (Rubber Gasket Joints).

1 Providing, Laying RCC pipes of A.S.T.M C-76-62 T/C-76-70 of Class II wall B and fixing in trench i/c cutting, fitting and jointing with rubber ring i/c testing with water to specified pressure.

a)	225 mm (9" dia)	R.M	---	3452.06	Rft.	---	1052.14
b)	300 mm (12" dia)	R.M	---	4694.65	Rft.	---	1430.86
c)	375 mm (15" dia)	R.M	---	5753.43	Rft.	---	1753.56
d)	450 mm (18" dia)	R.M	---	7853.06	Rft.	---	2393.50
e)	525 mm (21" dia)	R.M	---	9003.75	Rft.	---	2744.21
f)	600 mm (24" dia)	R.M	---	10628.90	Rft.	---	3239.53
g)	675 mm (27" dia)	R.M	---	14640.24	Rft.	---	4462.13
h)	750 mm (30" dia)	R.M	---	20693.76	Rft.	---	6307.15
i)	900 mm (36" dia)	R.M	---	25214.03	Rft.	---	7684.86
j)	1050 mm (42" dia)	R.M	---	36388.90	Rft.	---	11090.80
k)	1200 mm (48" dia)	R.M	---	53450.01	Rft.	---	16290.77
l)	1350 mm (54" dia)	R.M	---	63393.25	Rft.	---	19321.32
m)	1500 mm (60" dia)	R.M	---	85198.29	Rft.	---	25967.17
n)	1800 mm (72" dia)	R.M	---	131180.77	Rft.	---	39981.95
o)	2100 mm (84" dia)	R.M	---	170046.13	Rft.	---	51827.53

NOTES:-

- (1) The RCC pipes, rubber rings and lubricant (e.g grease etc.) will be supplied by the contractor and shall be of approved manufacture and confirm to ASTM specification C-76-62 T/C-76-70 Class II wall B and as laid down in Government of Pakistan Schedule of Rates Volume I part (Specifications of materials for construction) 1964.
- (2) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (3) The rates of material are at source and are exclusive of carriage charges.
- (4) All leaks and other defects, if any, shall be made good by the contractor at his own cost.
- (5) If sulphate resisting cement is used, the difference of cost in ordinary cements and sulphate resisting cements at source should paid seperately.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

B- Providing, Laying and Jointing General RCC Pipe (Rubber Gasket Joints).

- 2 Providing, Laying General RCC pipes with (Rubber Ring Joint and fitting in trench i/c cutting, fitting and jointing with rubber ring i/c testing with water to specified pressure.

200 mm (9" dia)	R.M	---	3214.82	Rft.	---	979.83
300 mm (12" dia)	R.M	---	4125.28	Rft.	---	1257.32
375 mm (15" dia)	R.M	---	5041.72	Rft.	---	1536.64
450 mm (18" dia)	R.M	---	6904.12	Rft.	---	2104.27
525 mm (21" dia)	R.M	---	8529.27	Rft.	---	2599.60
600 mm (24" dia)	R.M	---	10628.90	Rft.	---	3239.53
675 mm (27" dia)	R.M	---	11793.41	Rft.	---	3594.46
750 mm (30" dia)	R.M	---	14677.45	Rft.	---	4473.47
825 mm (33" dia)	R.M	---	18680.55	Rft.	---	5693.55
900 mm (36" dia)	R.M	---	20380.22	Rft.	---	6211.59
1050 mm (42" dia)	R.M	---	37792.43	Rft.	---	11518.57
1200 mm (48" dia)	R.M	---	49159.09	Rft.	---	14982.96
1350 mm (54" dia)	R.M	---	59102.33	Rft.	---	18013.51
1500 mm (60" dia)	R.M	---	81361.21	Rft.	---	24797.69
1800 mm (72" dia)	R.M	---	94130.62	Rft.	---	28689.61
2100 mm (84" dia)	R.M	---	131029.49	Rft.	---	39935.84

NOTES:-

- (1) The RCC pipes, rubber rings and lubricant will be supplied by the contractor and shall be of approved manufacture and conform to standard specification and as laid down in Government of Pakistan Schedule of Rates Volume I part I & II (Specifications of materials for construction) 1964 & AWWA Specification steel core cylinder & socket shall comprise of 1/16" & 1/4" thick M.S sheet respectively.
- (2) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (3) The rates of material are at source and are exclusive of carriage charges.
- (4) All leaks and other defects, if any, shall be made good by the contractor at his own cost.
- (5) All measurements of the completed pipeline will be taken along the Central axis of the pipes and shall exclude the length of specials. The items includes the cost of labour of only one joint of every specials and fitting inserted inside the pipeline. All excess joints for specials and fittings shall be paid at the rate given in items No.G-I Chapter-III, labour rates of work.
- (6) If sulphate resisting cement is used, the difference of cost in ordinary cements and sulphate resisting cement at source should be paid separately.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

C Providing, Laying and Jointing (F.C Pressure pipes).

1 Providing, Laying Fiber Cement pressure pipes & Comet joints of Class 'B' and fixing in trench i/c cutting, fitting and jointing with rubber ring i/c testing with water to a head of 122 meter or 400 ft.

a)	80 mm (3" dia)	R.M	---	724.79	Rft.	---	220.91
b)	100 mm (4" dia)	R.M	---	954.40	Rft.	---	290.89
c)	150 mm (6" dia)	R.M	---	1513.84	Rft.	---	461.39
d)	200 mm (8" dia)	R.M	---	2515.33	Rft.	---	766.63
e)	250 mm (10" dia)	R.M	---	3414.01	Rft.	---	1040.54
f)	300 mm (12" dia)	R.M	---	4495.17	Rft.	---	1370.06
g)	350 mm (14" dia)	R.M	---	6843.37	Rft.	---	2085.76
h)	400 mm (16" dia)	R.M	---	8682.70	Rft.	---	2646.36
i)	450 mm (18" dia)	R.M	---	10794.46	Rft.	---	3289.99
j)	500 mm (20" dia)	R.M	---	13248.03	Rft.	---	4037.80
k)	600 mm (24" dia)	R.M	---	18260.54	Rft.	---	5565.54
l)	700 mm (28" dia)	R.M	---	29279.28	Rft.	---	8923.89
m)	800 mm (32" dia)	R.M	---	33518.21	Rft.	---	10215.85
n)	1000 mm (40" dia)	R.M	---	51746.86	Rft.	---	15771.67

C Providing, Laying and Jointing (F.C Pressure pipes).

2 Providing, Laying Fiber Cement pressure pipes & Comet joints of Class 'C' and fixing in trench i/c cutting, fitting and jointing with rubber ring i/c testing with water to a head of 183 meter or 600 ft.

a)	80 mm (3" dia)	R.M	---	724.79	Rft.	---	220.91
b)	100 mm (4" dia)	R.M	---	1046.92	Rft.	---	319.09
c)	150 mm (6" dia)	R.M	---	1801.68	Rft.	---	549.13
d)	200 mm (8" dia)	R.M	---	2834.01	Rft.	---	863.76
e)	250 mm (10" dia)	R.M	---	3935.73	Rft.	---	1199.55
f)	300 mm (12" dia)	R.M	---	5453.81	Rft.	---	1662.24

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

g)	350 mm (14" dia)	R.M	---	9930.01	Rft.	---	3026.52		
h)	400 mm (16" dia)	R.M	---	12674.00	Rft.	---	3862.85		
i)	450 mm (18" dia)	R.M	---	15525.93	Rft.	---	4732.07		
j)	500 mm (20" dia)	R.M	---	18452.39	Rft.	---	5624.01		
k)	600 mm (24" dia)	R.M	---	25952.72	Rft.	---	7910.00		

C Providing, Laying and Jointing (F.C Pressure pipes).

3 Providing, Laying Fiber Cement pressure pipes & Comet joints of Class 'D' and fixing in trench i/c cutting, fitting and jointing with rubber ring i/c testing with water to a head of 244 meter or 800 ft.

a)	80 mm (3" dia)	R.M	---	724.79	Rft.	---	220.91		
b)	100 mm (4" dia)	R.M	---	1185.70	Rft.	---	361.38		
c)	150 mm (6" dia)	R.M	---	2151.21	Rft.	---	655.66		
d)	200 mm (8" dia)	R.M	---	3772.08	Rft.	---	1149.67		
e)	250 mm (10" dia)	R.M	---	5544.59	Rft.	---	1689.91		
f)	300 mm (12" dia)	R.M	---	8062.41	Rft.	---	2457.30		
g)	350 mm (14" dia)	R.M	---	14229.40	Rft.	---	4336.91		
h)	400 mm (16" dia)	R.M	---	18423.22	Rft.	---	5615.12		
i)	450 mm (18" dia)	R.M	---	22161.82	Rft.	---	6754.59		
j)	500 mm (20" dia)	R.M	---	27013.25	Rft.	---	8233.24		
k)	600 mm (24" dia)	R.M	---	38970.06	Rft.	---	11877.49		

Notes:

- (1) The FC pipes & comet joint, rubber ring and lubricants (Grease etc) will be supplied by the Contractor and shall be of approved manufacturer and confirm to standard specification laid down in Government of Pakistan Schedule of Rates Volume I part I & II (Specifications of materials of construction) 1964 & (Specification for execution of works) 1967.
- (2) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (3) The rates of material are at surce and are ecclusive of carriage charges.
- (4) All leaks and other defects, if any, shall be made good by the contractor at his own cost.
- (5) If sulphate resulting cement is used, the difference of cost in ordinary cements and sulphate resisting cement at source should be paid seperately.
- 6(i) The A.C/F.C pipes shall be used only for sewerage and drainage purpose not for water supply scheme.
- (ii) Asbestos pipe fitters would be provided with mask by the contractor/employer as precautioary measure for preventing of Asbestos dust.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

D Providing, Laying and Jointing U-PVC pipes with 'Z' Joints.

- 1 Providing, Laying UPVC Pressure Pipes of Class 'B' (equivalent make) fixing in trench i/c cutting, fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 61meter or 200 ft.

a)	80 mm (3" dia)	R.M	---	837.23	Rft.	---	255.18
b)	100 mm (4" dia)	R.M	---	1262.61	Rft.	---	384.82
c)	125 mm (5" dia)	R.M	---	1715.66	Rft.	---	522.91
d)	150 mm (6" dia)	R.M	---	2401.99	Rft.	---	732.09
e)	200 mm (8" dia)	R.M	---	3652.09	Rft.	---	1113.10
f)	250 mm (10" dia)	R.M	---	5625.75	Rft.	---	1714.64
g)	300 mm (12" dia)	R.M	---	7816.88	Rft.	---	2382.47
i)	350 mm (14" dia)	R.M	---	9375.38	Rft.	---	2857.48
j)	400 mm (16" dia)	R.M	---	12218.91	Rft.	---	3724.14
k)	450 mm (18" dia)	R.M	---	15501.33	Rft.	---	4724.57
l)	500 mm (20" dia)	R.M	---	21108.66	Rft.	---	6433.60
m)	600 mm (24" dia)	R.M	---	27819.78	Rft.	---	8479.06

- 2 Providing, Laying uPVC Pressure Pipes of Class 'C' (equivalent make) fixing in trench i/c cutting, fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 91.5meter or 300 ft.

a)	50 mm (2" dia)	R.M	---	494.89	Rft.	---	150.84
b)	63 mm (2 1/2" dia)	R.M	---	721.42	Rft.	---	219.88
c)	80 mm (3" dia)	R.M	---	995.39	Rft.	---	303.38
d)	100 mm (4" dia)	R.M	---	1610.55	Rft.	---	490.87
e)	125 mm (5" dia)	R.M	---	2395.74	Rft.	---	730.18
f)	150 mm (6" dia)	R.M	---	3410.24	Rft.	---	1039.39
g)	200 mm (8" dia)	R.M	---	5221.80	Rft.	---	1591.53
h)	250 mm (10" dia)	R.M	---	8021.83	Rft.	---	2444.94
i)	300 mm (12" dia)	R.M	---	11256.80	Rft.	---	3430.91
j)	350 mm (14" dia)	R.M	---	13530.97	Rft.	---	4124.04

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

k)	400 mm (16" dia)	R.M	---	15449.27	Rft.	---	4708.71		
l)	450 mm (18" dia)	R.M	---	22444.43	Rft.	---	6840.73		
m)	500 mm (20" dia)	R.M	---	28059.67	Rft.	---	8552.17		
n)	600 mm (24" dia)	R.M	---	39891.14	Rft.	---	12158.23		

3 Providing, Laying uPVC Pressure Pipes of Class 'D' (equivalent make) fixing in trench i/c cutting, fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 122 meter or 400 ft.

a)	31 mm (1 1/4" dia)	R.M	---	297.45	Rft.	---	90.66		
b)	38 mm (1 1/2" dia)	R.M	---	390.94	Rft.	---	119.15		
c)	50 mm (2" dia)	R.M	---	580.76	Rft.	---	177.01		
d)	63 mm (2 1/2" dia)	R.M	---	830.98	Rft.	---	253.27		
e)	80 mm (3" dia)	R.M	---	1260.30	Rft.	---	384.12		
f)	100 mm (4" dia)	R.M	---	2073.16	Rft.	---	631.87		
g)	125 mm (5" dia)	R.M	---	3083.72	Rft.	---	939.87		
h)	150 mm (6" dia)	R.M	---	4422.45	Rft.	---	1347.90		
i)	200 mm (8" dia)	R.M	---	6736.15	Rft.	---	2053.08		
j)	250 mm (10" dia)	R.M	---	10386.29	Rft.	---	3165.59		
k)	300 mm (12" dia)	R.M	---	14285.52	Rft.	---	4354.01		
l)	350 mm (14" dia)	R.M	---	17571.89	Rft.	---	5355.65		
m)	400 mm (16" dia)	R.M	---	22597.99	Rft.	---	6887.53		
n)	425 mm (18" dia)	R.M	---	28566.95	Rft.	---	8706.78		

D Providing, Laying and Jointing PVC pipes with Solvent Cement Joints.

4 Providing, Laying uPVC pipes of Class 'B' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 61 meter or 200 ft.

a)	80 mm (3" dia)	R.M	---	890.42	Rft.	---	271.39		
b)	100 mm (4" dia)	R.M	---	1332.50	Rft.	---	406.12		
c)	125 mm (5" dia)	R.M	---	1803.09	Rft.	---	549.56		
d)	150 mm (6" dia)	R.M	---	2508.19	Rft.	---	764.46		
e)	200 mm (8" dia)	R.M	---	3794.31	Rft.	---	1156.45		
f)	250 mm (10" dia)	R.M	---	5802.37	Rft.	---	1768.48		

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

g)	300 mm (12" dia)	R.M	---	8032.28	Rft.	---	2448.12		
h)	350 mm (14" dia)	R.M	---	9621.45	Rft.	---	2932.48		
i)	400 mm (16" dia)	R.M	---	12503.39	Rft.	---	3810.85		
j)	450 mm (18" dia)	R.M	---	15820.71	Rft.	---	4821.92		
k)	500 mm (20" dia)	R.M	---	21458.71	Rft.	---	6540.29		
l)	600 mm (24" dia)	R.M	---	28244.56	Rft.	---	8608.52		

5 Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft.

a)	50 mm (2" dia)	R.M	---	530.82	Rft.	---	161.78		
b)	62.5 mm (2 1/2" dia)	R.M	---	569.13	Rft.	---	173.46		
c)	75 mm (3" dia)	R.M	---	1047.33	Rft.	---	319.21		
d)	100 mm (4" dia)	R.M	---	1681.90	Rft.	---	512.62		
e)	125 mm (5" dia)	R.M	---	2484.54	Rft.	---	757.25		
f)	150 mm (6" dia)	R.M	---	3515.73	Rft.	---	1071.54		
g)	200 mm (8" dia)	R.M	---	5363.32	Rft.	---	1634.66		
h)	250 mm (10" dia)	R.M	---	8197.28	Rft.	---	2498.41		
i)	300 mm (12" dia)	R.M	---	11473.72	Rft.	---	3497.02		
j)	350 mm (14" dia)	R.M	---	13777.72	Rft.	---	4199.25		
k)	400 mm (16" dia)	R.M	---	15732.26	Rft.	---	4794.96		
l)	450 mm (18" dia)	R.M	---	22761.06	Rft.	---	6937.23		
m)	500 mm (20" dia)	R.M	---	28411.89	Rft.	---	8659.52		
n)	550 mm (24" dia)	R.M	---	40315.12	Rft.	---	12287.45		

6 Providing, Laying uPVC pipes of Class 'D' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c **Testing** with water to a head of 122 meter or 400 ft.

a)	26 mm (1 1/4" dia)	R.M	---	327.96	Rft.	---	99.96		
b)	38 mm (1 1/2" dia)	R.M	---	428.43	Rft.	---	130.58		
c)	50 mm (2" dia)	R.M	---	638.84	Rft.	---	194.71		
d)	63 mm (2 1/2" dia)	R.M	---	893.94	Rft.	---	272.46		
e)	80 mm (3" dia)	R.M	---	1329.96	Rft.	---	405.35		
f)	100 mm (4" dia)	R.M	---	2168.02	Rft.	---	660.78		
g)	125 mm (5" dia)	R.M	---	3204.12	Rft.	---	976.57		
h)	150 mm (6" dia)	R.M	---	4564.11	Rft.	---	1391.07		
i)	200 mm (8" dia)	R.M	---	6927.68	Rft.	---	2111.45		

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10
m)	250 mm (10" dia)	R.M	---	10625.84	Rft.	---	3238.60		
n)	300 mm (12" dia)	R.M	---	14572.27	Rft.	---	4441.41		
o)	350 mm (14" dia)	R.M	---	17906.16	Rft.	---	5457.53		
p)	400 mm (16" dia)	R.M	---	22978.19	Rft.	---	7003.41		
q)	450 mm (18" dia)	R.M	---	28943.95	Rft.	---	8821.68		

NOTES:-

- (1) All pipes and jointing solution (solvent cement) of approved manufacture will be supplied by the Contractor **U-PVC** pipes shall conform to British standard specification No.BSS-3505.
- (2) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (3) The rates of material are at source and are exclusive of carriage charges.
- (4) All leaks and other defects, if any, shall be made good by the contractor at his own cost.

E Providing, Laying and Jointing P.E pipes.

- 1 Providing, Laying & Fixing in trench
i/c fitting, jointing & testing etc
complete in all respect the high
Density Polyethylene PE pipes
(HDPE-100) for W/S confirming
ISO 4427/DIN8074/8075 B.S 3580
& PSI 3051.

PN 08

a)	40 mm	R.M	---	297.87	Rft.	---	90.79
b)	50 mm	R.M	---	429.25	Rft.	---	130.83
c)	63 mm	R.M	---	603.85	Rft.	---	184.05
d)	75 mm	R.M	---	820.05	Rft.	---	249.94
e)	90 mm	R.M	---	1127.71	Rft.	---	343.71
f)	110 mm	R.M	---	1657.12	Rft.	---	505.07
g)	125 mm	R.M	---	2083.95	Rft.	---	635.16
h)	140 mm	R.M	---	2617.81	Rft.	---	797.87
i)	160 mm	R.M	---	3317.26	Rft.	---	1011.05
j)	180 mm	R.M	---	4246.84	Rft.	---	1294.37
k)	200 mm	R.M	---	5196.69	Rft.	---	1583.87
l)	225 mm	R.M	---	6612.48	Rft.	---	2015.38
m)	250 mm	R.M	---	7899.03	Rft.	---	2407.51
n)	280 mm	R.M	---	10106.65	Rft.	---	3080.36

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

PN 08

a)	315 mm	R.M	---	12612.06	Rft.	---	3843.97		
b)	355 mm	R.M	---	15921.39	Rft.	---	4852.60		
c)	400 mm	R.M	---	20295.68	Rft.	---	6185.82		
d)	450 mm	R.M	---	25552.79	Rft.	---	7788.11		
e)	500 mm	R.M	---	31483.94	Rft.	---	9595.84		
f)	560 mm	R.M	---	39281.89	Rft.	---	11972.54		
g)	630 mm	R.M	---	49490.79	Rft.	---	15084.06		
h)	710 mm	R.M	---	63109.60	Rft.	---	19234.87		
i)	800 mm	R.M	---	79823.11	Rft.	---	24328.90		
j)	900 mm	R.M	---	100843.92	Rft.	---	30735.73		
k)	1000 mm	R.M	---	124442.42	Rft.	---	37928.20		
l)	1200 mm	R.M	---	219393.7	Rft.	---	66867.93		

PN 10

a)	25 mm	R.M	---	190.26	Rft.	---	57.99		
b)	32 mm	R.M	---	231.62	Rft.	---	70.59		
c)	40 mm	R.M	---	323.31	Rft.	---	98.54		
d)	50 mm	R.M	---	472.69	Rft.	---	144.07		
e)	63 mm	R.M	---	692.06	Rft.	---	210.93		
f)	75 mm	R.M	---	944.28	Rft.	---	287.80		
g)	90 mm	R.M	---	1321.33	Rft.	---	402.72		
h)	110 mm	R.M	---	1971.87	Rft.	---	601.00		
i)	125 mm	R.M	---	2475.49	Rft.	---	754.49		
j)	140 mm	R.M	---	3138.05	Rft.	---	956.43		
k)	160 mm	R.M	---	3978.73	Rft.	---	1212.66		
l)	180 mm	R.M	---	5106.01	Rft.	---	1556.24		
m)	200 mm	R.M	---	6194.68	Rft.	---	1888.05		
n)	225 mm	R.M	---	6251.58	Rft.	---	1905.39		
o)	250 mm	R.M	---	9584.51	Rft.	---	2921.22		
p)	280 mm	R.M	---	12208.98	Rft.	---	3721.11		
q)	315 mm	R.M	---	15383.35	Rft.	---	4688.62		
r)	355 mm	R.M	---	19501.65	Rft.	---	5943.81		
s)	400 mm	R.M	---	24645.51	Rft.	---	7511.59		
t)	450 mm	R.M	---	31127.51	Rft.	---	9487.20		
u)	500 mm	R.M	---	38426.20	Rft.	---	11711.73		
v)	560 mm	R.M	---	48035.29	Rft.	---	14640.44		
w)	630 mm	R.M	---	60729.35	Rft.	---	18509.40		
x)	710 mm	R.M	---	77176.57	Rft.	---	23522.27		
y)	800 mm	R.M	---	97723.43	Rft.	---	29784.65		

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

PN 10

z)	900 mm	R.M	---	123475.55	Rft.	---	37633.51		
aa)	1000 mm	R.M	---	152487.26	Rft.	---	46475.85		
ab)	1200 mm	R.M	---	257486.9	Rft.	---	78478.18		

PN 12.50

a)	25 mm	R.M	---	197.02	Rft.	---	60.05		
b)	32 mm	R.M	---	269.57	Rft.	---	82.16		
c)	40 mm	R.M	---	380.92	Rft.	---	116.10		
d)	50 mm	R.M	---	556.24	Rft.	---	169.53		
e)	63 mm	R.M	---	843.02	Rft.	---	256.94		
f)	75 mm	R.M	---	1130.71	Rft.	---	344.62		
g)	90 mm	R.M	---	1583.71	Rft.	---	482.69		
h)	110 mm	R.M	---	2397.04	Rft.	---	730.58		
i)	125 mm	R.M	---	3052.48	Rft.	---	930.35		
j)	140 mm	R.M	---	3794.95	Rft.	---	1156.65		
k)	160 mm	R.M	---	4835.79	Rft.	---	1473.88		
l)	180 mm	R.M	---	6195.04	Rft.	---	1888.16		
m)	200 mm	R.M	---	7556.58	Rft.	---	2303.13		
n)	225 mm	R.M	---	9673.79	Rft.	---	2948.43		
o)	250 mm	R.M	---	11689.23	Rft.	---	3562.70		
p)	280 mm	R.M	---	14831.66	Rft.	---	4520.47		
q)	315 mm	R.M	---	18723.04	Rft.	---	5706.51		
r)	355 mm	R.M	---	23662.97	Rft.	---	7212.12		
s)	400 mm	R.M	---	30005.54	Rft.	---	9145.24		
t)	450 mm	R.M	---	37652.53	Rft.	---	11475.93		
u)	500 mm	R.M	---	46817.79	Rft.	---	14269.37		
v)	560 mm	R.M	---	58633.69	Rft.	---	17870.68		
w)	630 mm	R.M	---	74000.13	Rft.	---	22554.14		
x)	710 mm	R.M	---	94006.53	Rft.	---	28651.79		
y)	800 mm	R.M	---	119101.75	Rft.	---	36300.44		
z)	900 mm	R.M	---	150757.69	Rft.	---	45948.70		
aa)	1000 mm	R.M	---	183502.9	Rft.	---	55928.95		
ab)	1200 mm	R.M	---	328059.5	Rft.	---	99987.65		

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

PN 16

a)	25 mm	R.M	---	223.51	Rft.	---	68.12		
b)	32 mm	R.M	---	306.66	Rft.	---	93.47		
c)	40 mm	R.M	---	429.00	Rft.	---	130.75		
d)	50 mm	R.M	---	659.12	Rft.	---	200.89		
e)	63 mm	R.M	---	978.01	Rft.	---	298.08		
f)	75 mm	R.M	---	1333.15	Rft.	---	406.32		
g)	90 mm	R.M	---	1904.26	Rft.	---	580.39		
h)	110 mm	R.M	---	2823.87	Rft.	---	860.67		
i)	125 mm	R.M	---	3616.83	Rft.	---	1102.36		
j)	140 mm	R.M	---	4559.96	Rft.	---	1389.81		
k)	160 mm	R.M	---	5841.31	Rft.	---	1780.34		
l)	180 mm	R.M	---	7446.90	Rft.	---	2269.70		
m)	200 mm	R.M	---	9129.81	Rft.	---	2782.63		
n)	225 mm	R.M	---	11677.76	Rft.	---	3559.21		
o)	250 mm	R.M	---	14104.37	Rft.	---	4298.80		
p)	280 mm	R.M	---	17922.49	Rft.	---	5462.51		
q)	315 mm	R.M	---	22545.27	Rft.	---	6871.46		
r)	355 mm	R.M	---	28536.27	Rft.	---	8697.43		
s)	400 mm	R.M	---	36332.31	Rft.	---	11073.55		
t)	450 mm	R.M	---	45784.54	Rft.	---	13954.45		
u)	500 mm	R.M	---	56456.65	Rft.	---	17207.15		
v)	560 mm	R.M	---	70790.49	Rft.	---	21575.89		
w)	630 mm	R.M	---	89582.82	Rft.	---	27303.51		
x)	710 mm	R.M	---	113696.88	Rft.	---	34653.12		
y)	800 mm	R.M	---	144055.65	Rft.	---	43906.02		
z)	900 mm	R.M	---	182205.7	Rft.	---	55533.60		
aa)	1000 mm	R.M	---	223590.4	Rft.	---	68147.04		

Laying and Jointing P.E pipes (i/c cost of jointing material).

- 2 Laying P.E pipes of all types and fixing in trench i/c cutting, fitting and jointing with Butt Fusion joint i/c testing with water to **Specified** fied pressure.

a)	25 mm	R.M	---	89.97	Rft.	---	27.42		
b)	32 mm	R.M	---	89.97	Rft.	---	27.42		
c)	40 mm	R.M	---	89.97	Rft.	---	27.42		

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10
d)	50 mm	R.M	---	104.95	Rft.	---	31.99		
e)	63 mm	R.M	---	104.95	Rft.	---	31.99		
f)	75 mm	R.M	---	104.95	Rft.	---	31.99		
g)	90 mm	R.M	---	104.95	Rft.	---	31.99		
h)	110 mm	R.M	---	164.83	Rft.	---	50.24		
i)	125 mm	R.M	---	164.83	Rft.	---	50.24		
j)	140 mm	R.M	---	164.83	Rft.	---	50.24		
k)	160 mm	R.M	---	164.83	Rft.	---	50.24		
l)	180 mm	R.M	---	284.60	Rft.	---	86.74		
m)	200 mm	R.M	---	284.60	Rft.	---	86.74		
n)	225 mm	R.M	---	284.60	Rft.	---	86.74		
o)	250 mm	R.M	---	284.60	Rft.	---	86.74		
p)	280 mm	R.M	---	344.49	Rft.	---	104.99		
q)	315 mm	R.M	---	344.49	Rft.	---	104.99		
r)	355 mm	R.M	---	344.49	Rft.	---	104.99		
s)	400 mm	R.M	---	434.31	Rft.	---	132.37		
t)	450 mm	R.M	---	434.31	Rft.	---	132.37		
u)	500 mm	R.M	---	494.20	Rft.	---	150.62		
v)	560 mm	R.M	---	494.20	Rft.	---	150.62		
w)	630 mm	R.M	---	494.20	Rft.	---	150.62		
x)	710 mm	R.M	---	613.97	Rft.	---	187.13		
y)	800 mm	R.M	---	613.97	Rft.	---	187.13		
z)	900 mm	R.M	---	613.97	Rft.	---	187.13		
aa)	1000 mm	R.M	---	613.97	Rft.	---	187.13		
ab)	1200 mm	R.M	---	613.97	Rft.	---	187.13		

NOTES:-

- (1) All pipes and Tools & Plants (Butt Fusion jointing machine) & other material of approved manufacture will be supplied by the Contractor P.E pipes shall confirm to British standard specification No.BSS-3580,3051 1984.
- (2) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (3) The rates of material are at source and are exclusive of carriage charges.
- (4) All leaks and other defects, if any, shall be made good by the contractor at his own cost.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

F Providing,Laying & jointing Black Steel M.S pipe with welding (Straight welded).

- 1 Manufacturing, Supplying & fixing **black** steel M.S pipe made out of M.S sheet confirming to API 5L grade X- 42 ERW & Externally 3 LPE coating inspection and tesing will be carried out as per DIN **30670** standard and internally CC Lining to be done as per AWWA C-205 standard i/c laying jointing with welding in trenches i/c cost of bends of any degree & testing with water specified pressure for different dia of pipes as below:(Straight)

I 5 mm thick

a)	3"	dia	R.M	---	6705.10	Rft.	---	2043.61
b)	4"	dia	R.M	---	8808.31	Rft.	---	2684.64
c)	6"	dia	R.M	---	13135.07	Rft.	---	4003.37
d)	8"	dia	R.M	---	17308.05	Rft.	---	5275.24
e)	10"	dia	R.M	---	20930.22	Rft.	---	6379.22

II 6 mm thick

a)	4"	dia	R.M	---	9853.12	Rft.	---	3003.09
b)	6"	dia	R.M	---	14723.93	Rft.	---	4487.63
c)	8"	dia	R.M	---	19406.36	Rft.	---	5914.77
d)	10"	dia	R.M	---	23570.48	Rft.	---	7183.93
e)	12"	dia	R.M	---	28081.89	Rft.	---	8558.94
f)	16"	dia	R.M	---	35388.00	Rft.	---	10785.74
g)	18"	dia	R.M	---	39858.30	Rft.	---	12148.22

III 7 mm thick

a)	6"	dia	R.M	---	16291.73	Rft.	---	4965.48
b)	8"	dia	R.M	---	21486.62	Rft.	---	6548.80
c)	10"	dia	R.M	---	26195.96	Rft.	---	7984.14

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

IV 8.00 mm thick

a)	12"	dia	R.M	---	34339.05	Rft.	---	10466.03	
b)	14"	dia	R.M	---	38070.85	Rft.	---	11603.43	
c)	16"	dia	R.M	---	43315.92	Rft.	---	13202.05	
d)	18"	dia	R.M	---	48809.97	Rft.	---	14876.55	

V 9 mm thick

a)	12"	dia	R.M	---	37439.55	Rft.	---	11411.02	
b)	14"	dia	R.M	---	41494.27	Rft.	---	12646.84	
c)	16"	dia	R.M	---	47247.12	Rft.	---	14400.22	
d)	18"	dia	R.M	---	52812.54	Rft.	---	16096.48	

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

G- Providing,Laying & jointing Black Steel M.S pipe with welding (Spirally welded).

- 1 Manufacturing, Supplying & fixing
black steel M.S pipe made out of M.S sheet confirming to API 5L grade X- 42 ERW & Externally 3 LPE coating inspection and tesing will be carried out as per DIN **30670** standard and internally CC Lining to be done as per AWWA C-205 standard i/c laying jointing with welding in trenches i/c cost of bends of any degree & testing with water specified pressure for different dia of pipes as below: (Spirally Welded)

I 5.56mm thick

a) 10" 75	dia	R.M	---	22911.10	Rft.	---	6982.96
b) 12".75	dia	R.M	---	27082.02	Rft.	---	8254.20
c) 14"	dia	R.M	---	29151.94	Rft.	---	8885.08

II 6.4mm thick

a) 16"	dia	R.M	---	36292.51	Rft.	---	11061.42
b) 18"	dia	R.M	---	40925.56	Rft.	---	12473.50
c) 20"	dia	R.M	---	45515.71	Rft.	---	13872.51

III 7.1mm thick

a) 22"	dia	R.M	---	49782.99	Rft.	---	15173.11
b) 24"	dia	R.M	---	54281.36	Rft.	---	16544.15

IV 7.9mm thick

a) 26"	dia	R.M	---	63861.66	Rft.	---	19464.09
b) 28"	dia	R.M	---	67936.26	Rft.	---	20705.96

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

VII 10.mm thick

a)	30"	dia	R.M	---	89045.78	Rft.	---	27139.83	
b)	32"	dia	R.M	---	94992.87	Rft.	---	28952.41	
c)	36"	dia	R.M	---	106888.13	Rft.	---	32577.91	
d)	40"	dia	R.M	---	118785.94	Rft.	---	36204.19	
e)	42"	dia	R.M	---	124732.99	Rft.	---	38016.76	
f)	48"	dia	R.M	---	142577.84	Rft.	---	43455.61	

NOTES:-

- (1) All pipes and jointing Material of approved manufacture will be supplied by the Contractor Black Steel pipes shall confirm to API specification.
- (2) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (3) The rates of material are at source and are exclusive of carriage charges.
- (4) All leaks and other defects, if any, shall be made good by the contractor at his own cost.
- (5) All measurements of the completed pipeline will be taken along the Central axis of the pipes and shall exclude the length of specials. The items includes the cost of labour of only one joint of every specials and fitting inserted inside the pipeline. all excess joints for specials and fittings shall be paid separately.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

H Providing, External & Internal Coating of M.S Pipes.

- 1 Externally 3 LPE coating inspection and testing will be carried out as per DIN 30670 standard and internally CC Lining to be done as per AWWA C-205 standard M.S Pipe of 5mm 6.4mm 7.1mm 7.9mm 10mm.

Internally C.C lining to be done as per AWWA C-205 standard

Externally 3 LPE Coating inspection and testing will be carried out as per DIN 30670 Standard

1 Size of Pipe

a) for 3" Dia	Rs.	208.53	Per Rft.	Rs.	386.0	Per Rft.
b) for 4" Dia	Rs.	278.03	Per Rft.	Rs.	514.7	Per Rft.
c) for 6" Dia	Rs.	417.05	Per Rft.	Rs.	772.0	Per Rft.
d) for 8" Dia	Rs.	556.07	Per Rft.	Rs.	1029.4	Per Rft.
e) for 10" Dia	Rs.	622.68	Per Rft.	Rs.	1152.7	Per Rft.
f) for 10.75" Dia	Rs.	695.08	Per Rft.	Rs.	1286.7	Per Rft.
g) for 12" Dia	Rs.	738.49	Per Rft.	Rs.	1367.3	Per Rft.
h) for 12.75" Dia	Rs.	810.73	Per Rft.	Rs.	1501.1	Per Rft.
i) for 14" Dia	Rs.	834.10	Per Rft.	Rs.	1544.1	Per Rft.
j) for 16" Dia	Rs.	926.55	Per Rft.	Rs.	1715.9	Per Rft.
k) for 18" Dia	Rs.	1042.37	Per Rft.	Rs.	1930.5	Per Rft.
l) for 20" Dia	Rs.	1158.18	Per Rft.	Rs.	2144.8	Per Rft.
m) for 22" Dia	Rs.	1274.00	Per Rft.	Rs.	2359.3	Per Rft.
n) for 24" Dia	Rs.	1389.82	Per Rft.	Rs.	2574.2	Per Rft.
o) for 26" Dia	Rs.	1505.64	Per Rft.	Rs.	2788.2	Per Rft.
p) for 28" Dia	Rs.	1621.46	Per Rft.	Rs.	3003	Per Rft.
q) for 30" Dia	Rs.	1737.28	Per Rft.	Rs.	3217.6	Per Rft.
r) for 32" Dia	Rs.	1853.09	Per Rft.	Rs.	3431.9	Per Rft.
s) for 36" Dia	Rs.	2084.73	Per Rft.	Rs.	3860.7	Per Rft.
t) for 40" Dia	Rs.	2316.37	Per Rft.	Rs.	4289.9	Per Rft.
u) for 42" Dia	Rs.	2432.19	Per Rft.	Rs.	4504.1	Per Rft.
v) for 48" Dia	Rs.	2779.64	Per Rft.	Rs.	5147.5	Per Rft.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

Laying and Jointing Black Steel pipes (i/c cost of jointing material).

- 2 Laying Black Steel pipes of all types and fixing in trench i/c cutting, fitting and jointing with welding i/c testing with water to Specified fied pressure.

a)	3"	dia	R.M	---	105.48	Rft.	---	32.15	
b)	4"	dia	R.M	---	140.64	Rft.	---	42.86	
c)	6"	dia	R.M	---	175.80	Rft.	---	53.58	
d)	8"	dia	R.M	---	210.96	Rft.	---	64.30	
e)	9"	dia	R.M	---	234.39	Rft.	---	71.44	
f)	10"	dia	R.M	---	316.43	Rft.	---	96.44	
g)	10.75"	dia	R.M	---	377.97	Rft.	---	115.20	
h)	12"	dia	R.M	---	421.91	Rft.	---	128.59	
i)	12.75"	dia	R.M	---	448.29	Rft.	---	136.63	
j)	14"	dia	R.M	---	492.23	Rft.	---	150.02	
k)	15"	dia	R.M	---	528.08	Rft.	---	160.95	
l)	16"	dia	R.M	---	562.55	Rft.	---	171.46	
m)	18"	dia	R.M	---	632.87	Rft.	---	192.89	
n)	20"	dia	R.M	---	703.18	Rft.	---	214.32	
o)	21"	dia	R.M	---	739.96	Rft.	---	225.53	
p)	22"	dia	R.M	---	773.50	Rft.	---	235.75	
q)	24"	dia	R.M	---	843.82	Rft.	---	257.18	
r)	26"	dia	R.M	---	914.14	Rft.	---	278.62	
s)	27"	dia	R.M	---	955.13	Rft.	---	291.11	
t)	28"	dia	R.M	---	984.46	Rft.	---	300.05	
u)	30"	dia	R.M	---	1054.78	Rft.	---	321.48	
v)	32"	dia	R.M	---	1125.09	Rft.	---	342.91	
w)	36"	dia	R.M	---	1265.73	Rft.	---	385.78	
x)	40"	dia	R.M	---	1406.37	Rft.	---	428.64	
y)	42"	dia	R.M	---	1476.69	Rft.	---	450.07	
z)	48"	dia	R.M	---	1687.64	Rft.	---	514.37	

I- Providing C.I Manhole Cover & Frame.

1	Providing C.I Manhole Cover & Frame i/c Cost of Material etc.	1 kg	764.04	Cwt	38813.00
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NOTES:-

- (i) C.I manhole cover, frame and other material required for fixing will be supplied by the Contractor and shall be of approved manufacture and conform to standard specification laid down in government of Pakistan schedule of rate volume part-I and II (specifications for materials of construction)1964 and (specification for execution of work) 1967.
- (ii) The rates of materials are at source and are exclusive of carriage charges.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

J- Laying and jointing RCC pipes Cement Collar Joint i/c Cost of Jointing Material.

1 Laying RCC pipes & Collars of Class 'A' and fixing in trench i/c cutting, fitting and jointing with maxphalt composition and cement mortor (1:1) i/c testing with water to a head of 4.5 meter or 15 ft.

a)	80 mm (3" dia)	R.M	---	246.48	Rft.	---	75.12		
b)	100 mm (4" dia)	R.M	---	328.64	Rft.	---	100.16		
c)	150 mm (6" dia)	R.M	---	492.96	Rft.	---	150.25		
d)	225 mm (9" dia)	R.M	---	739.44	Rft.	---	225.37		
e)	300 mm (12" dia)	R.M	---	983.69	Rft.	---	299.81		
f)	375 mm (15" dia)	R.M	---	1229.61	Rft.	---	374.77		
g)	400 mm (18" dia)	R.M	---	1475.53	Rft.	---	449.72		
h)	525 mm (21" dia)	R.M	---	1721.45	Rft.	---	524.67		
i)	600 mm (24" dia)	R.M	---	1967.37	Rft.	---	599.63		
j)	675 mm (27" dia)	R.M	---	2227.80	Rft.	---	679.00		
k)	750 mm (30" dia)	R.M	---	2475.34	Rft.	---	754.45		
l)	900 mm (36" dia)	R.M	---	2970.40	Rft.	---	905.34		
m)	1050 mm (42" dia)	R.M	---	3513.97	Rft.	---	1071.00		
n)	1125 mm (45" dia)	R.M	---	3764.96	Rft.	---	1147.51		
o)	1200 mm (48" dia)	R.M	---	4015.96	Rft.	---	1224.01		
p)	1275 mm (51" dia)	R.M	---	4266.96	Rft.	---	1300.51		
q)	1350 mm (54" dia)	R.M	---	4517.96	Rft.	---	1377.01		
r)	1500 mm (60" dia)	R.M	---	5019.95	Rft.	---	1530.01		

2 Laying RCC pipes & Collars of Class 'B' and fixing in trench i/c cutting, fitting and jointing with maxphalt composition and cement mortor (1:1) i/c testing with water to a head of 22.5 meter or 75 ft.

a)	80 mm (3" dia)	R.M	---	249.66	Rft.	---	76.09		
b)	100 mm (4" dia)	R.M	---	332.88	Rft.	---	101.46		
c)	150 mm (6" dia)	R.M	---	499.32	Rft.	---	152.18		

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10
d)	225 mm (9" dia)	R.M	---	748.97	Rft.	---	228.28		
e)	300 mm (12" dia)	R.M	---	1106.98	Rft.	---	337.39		
f)	375 mm (15" dia)	R.M	---	1383.72	Rft.	---	421.74		
g)	400 mm (18" dia)	R.M	---	1660.46	Rft.	---	506.08		
h)	525 mm (21" dia)	R.M	---	1937.21	Rft.	---	590.43		
i)	600 mm (24" dia)	R.M	---	2213.95	Rft.	---	674.78		
j)	675 mm (27" dia)	R.M	---	2319.09	Rft.	---	706.83		
k)	750 mm (30" dia)	R.M	---	2576.77	Rft.	---	785.36		
l)	900 mm (36" dia)	R.M	---	3092.12	Rft.	---	942.43		
m)	1050 mm (42" dia)	R.M	---	3532.54	Rft.	---	1076.67		
n)	1125 mm (45" dia)	R.M	---	3784.87	Rft.	---	1153.57		
o)	1200 mm (48" dia)	R.M	---	4037.19	Rft.	---	1230.48		
3	Laying RCC pipes & Collars of Class 'C' and fixing in trench i/c cutting, fitting and jointing with maxphalt composition and cement mortor (1:1) i/c testing with water to a head of 45 meter or 150 ft.								
a)	80 mm (3" dia)	R.M	---	276.86	Rft.	---	84.38		
b)	100 mm (4" dia)	R.M	---	369.15	Rft.	---	112.51		
c)	150 mm (6" dia)	R.M	---	553.72	Rft.	---	168.77		
d)	225 mm (9" dia)	R.M	---	830.59	Rft.	---	253.15		
e)	300 mm (12" dia)	R.M	---	1334.69	Rft.	---	406.79		
f)	375 mm (15" dia)	R.M	---	1668.36	Rft.	---	508.49		
g)	450 mm (18" dia)	R.M	---	2002.03	Rft.	---	610.19		

NOTES:-

- (1) Jointing material e.g cement, sand, spun yarn and maxphalt etc. will be supplied by the contractor and shall be of approved manufacture and conform to standard specification laid down in Government of Pakistan dule of rates Volume part I and II (specification for materials of construction) 1964 and (specification for execution of works).
- (2) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (3) The rates of material are at source and are exclusive of carriage charges.
- (4) All leaks and other defects, if any, shall be made good by the contractor at his own cost.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

K- Laying and Jointing PVC pipes (i/c cost of jointing material).

1 Laying PVC pipes of Class 'B' 'C' & 'D' and fixing in trench i/c cutting, fitting and jointing with maxphalt composition and jointing with solvent cement i/c testing with water to a head of 61 meter to 122 meter or 200 ft. to 400 ft. (Without jointing Material

a)	13 mm (1/2" dia)	R.M	---	16.28	Rft.	---	4.96		
b)	19 mm (3/4" dia)	R.M	---	24.42	Rft.	---	7.44		
c)	25 mm (1" dia)	R.M	---	32.56	Rft.	---	9.92		
d)	31 mm (1 1/4" dia)	R.M	---	40.69	Rft.	---	12.40		
e)	38 mm (1 1/2" dia)	R.M	---	48.83	Rft.	---	14.88		
f)	50 mm (2" dia)	R.M	---	65.11	Rft.	---	19.84		
g)	63 mm (2 1/2" dia)	R.M	---	81.39	Rft.	---	24.81		
h)	80 mm (3" dia)	R.M	---	97.67	Rft.	---	29.77		
i)	100 mm (4" dia)	R.M	---	130.22	Rft.	---	39.69		
j)	125 mm (5" dia)	R.M	---	162.78	Rft.	---	49.61		
k)	150 mm (6" dia)	R.M	---	195.33	Rft.	---	59.53		
l)	200 mm (8" dia)	R.M	---	260.44	Rft.	---	79.38		
m)	250 mm (10" dia)	R.M	---	325.55	Rft.	---	99.22		
n)	300 mm (12" dia)	R.M	---	390.67	Rft.	---	119.07		
o)	350 mm (14" dia)	R.M	---	455.78	Rft.	---	138.91		
p)	400 mm (16" dia)	R.M	---	520.89	Rft.	---	158.76		
q)	450 mm (18" dia)	R.M	---	586.00	Rft.	---	178.60		
r)	500 mm (20" dia)	R.M	---	651.11	Rft.	---	198.45		
s)	550 mm (22" dia)	R.M	---	716.22	Rft.	---	218.29		
t)	600 mm (24" dia)	R.M	---	781.33	Rft.	---	238.14		

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

2 Laying PVC pipes of Class 'B' 'C' & 'D' and fixing in trench i/c cutting, fitting and jointing with 'Z' joint i/c testing with water to a head of 61 meter to 122 meter or 200 ft. to 400 ft.

a)	31 mm (1 1/4" dia)	R.M	---	32.53	Rft.	---	9.92		
b)	38 mm (1 1/2" dia)	R.M	---	39.04	Rft.	---	11.90		
c)	50 mm (2" dia)	R.M	---	52.05	Rft.	---	15.86		
d)	62.50 mm (2 1/2" dia)	R.M	---	65.07	Rft.	---	19.83		
e)	80 mm (3" dia)	R.M	---	78.08	Rft.	---	23.80		
f)	100 mm (4" dia)	R.M	---	104.11	Rft.	---	31.73		
g)	125 mm (5" dia)	R.M	---	130.13	Rft.	---	39.66		
h)	150 mm (6" dia)	R.M	---	156.16	Rft.	---	47.59		
i)	200 mm (8" dia)	R.M	---	208.21	Rft.	---	63.46		
j)	250 mm (10" dia)	R.M	---	260.26	Rft.	---	79.32		
k)	300 mm (12" dia)	R.M	---	312.32	Rft.	---	95.19		
l)	350 mm (14" dia)	R.M	---	364.37	Rft.	---	111.05		
m)	400 mm (16" dia)	R.M	---	416.42	Rft.	---	126.92		
n)	450 mm (18" dia)	R.M	---	468.47	Rft.	---	142.78		
o)	500 mm (20" dia)	R.M	---	520.53	Rft.	---	158.65		
p)	550 mm (22" dia)	R.M	---	572.58	Rft.	---	174.51		
q)	600 mm (24" dia)	R.M	---	624.63	Rft.	---	190.38		

Laying PVC pipes of Class 'B' 'C' & 'D' and fixing in trench i/c cutting, fitting and jointing with Solvent cement i/c testing with water to a head of 61 meter to 122 meter or 200 ft. to 400 ft. With joint Material

a)	31 mm (1 1/4" dia)	R.M	---	36.41	Rft.	---	11.10		
b)	38 mm (1 1/2" dia)	R.M	---	43.69	Rft.	---	13.32		
c)	50 mm (2" dia)	R.M	---	58.25	Rft.	---	17.75		
d)	62.50 mm (2 1/2" dia)	R.M	---	72.82	Rft.	---	22.19		
e)	80 mm (3" dia)	R.M	---	87.38	Rft.	---	26.63		
f)	100 mm (4" dia)	R.M	---	116.51	Rft.	---	35.51		
g)	125 mm (5" dia)	R.M	---	145.63	Rft.	---	44.39		
h)	150 mm (6" dia)	R.M	---	174.76	Rft.	---	53.26		
i)	200 mm (8" dia)	R.M	---	233.01	Rft.	---	71.02		
j)	250 mm (10" dia)	R.M	---	291.27	Rft.	---	88.77		
k)	300 mm (12" dia)	R.M	---	349.52	Rft.	---	106.53		
l)	350 mm (14" dia)	R.M	---	407.78	Rft.	---	124.28		
m)	400 mm (16" dia)	R.M	---	466.03	Rft.	---	142.04		
n)	450 mm (18" dia)	R.M	---	524.28	Rft.	---	159.79		
o)	500 mm (20" dia)	R.M	---	582.54	Rft.	---	177.55		
p)	600 mm (24" dia)	R.M	---	699.04	Rft.	---	213.06		

NOTES:-

- (1) Jointing material will be supplied by the contractor and shall be of approved by manufacture.
- (2) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (3) The rates of material are at source and are exclusive of carriage charges.
- (4) All leaks and other defects, if any, shall be made good by the contractor at his own cost.
- (5) All measurements of the completed pipeline will be taken along the Central axis of the pipes and shall exclude the length of specials. The items includes the cost of labour of only one joint of every specials and fitting inserted inside the pipeline. all excess joints for specials and fittings shall be paid at the rate given in items No.K-I Chapter-II, Rates for finished item of work.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

L- Flanged Joints for C.I/M.S pipes i/c cost of jointing material.

1 Jointing C.I/M.S flanged pipes and specials flanged and inside a trench i/c supplying rubber packing of the required thickness nuts, bolts with washers etc, and other tools required for jointing and testing the joints to the specified pressure etc complete.

a) 80 mm (3" dia)	P.Joint	---	---	---	1562.07
b) 100 mm (4" dia)	P.Joint	---	---	---	1701.02
c) 125 mm (5" dia)	P.Joint	---	---	---	2276.77
d) 150 mm (6" dia)	P.Joint	---	---	---	2383.38
e) 200 mm (8" dia)	P.Joint	---	---	---	2521.33
f) 225 mm (9" dia)	P.Joint	---	---	---	2836.85
g) 250 mm (10" dia)	P.Joint	---	---	---	2952.64
h) 300 mm (12" dia)	P.Joint	---	---	---	5572.59
i) 375 mm (15" dia)	P.Joint	---	---	---	7979.63
j) 400 mm (16" dia)	P.Joint	---	---	---	8037.52
k) 450 mm (18" dia)	P.Joint	---	---	---	8263.31
l) 500 mm (20" dia)	P.Joint	---	---	---	11402.32
m) 550 mm (21" dia)	P.Joint	---	---	---	12819.72
n) 600 mm (24" dia)	P.Joint	---	---	---	14782.16
o) 675 mm (27" dia)	P.Joint	---	---	---	18062.21
p) 750 mm (30" dia)	P.Joint	---	---	---	23193.55
q) 825 mm (33" dia)	P.Joint	---	---	---	31557.22
r) 900 mm (36" dia)	P.Joint	---	---	---	37522.73
s) 975 mm (39" dia)	P.Joint	---	---	---	37884.57
t) 1050 mm (42" dia)	P.Joint	---	---	---	43676.38
u) 1125 mm (45" dia)	P.Joint	---	---	---	44075.86
v) 1200 mm (48" dia)	P.Joint	---	---	---	49690.75

NOTES:-

- (1) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (2) All leaks and other defects, if any, shall be made good by the contractor at his own cost.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

M- P.V.C joints i/c cost of jointing without materials.

Making Joints to PVC specials fitting of required diameter and testing the joints along with PVC pipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.

a) 50 mm (2" dia)	P.Joint	---	---	---	209.80
b) 75 mm (3" dia)	P.Joint	---	---	---	209.80
c) 100 mm (4" dia)	P.Joint	---	---	---	209.80
d) 125 mm (5" dia)	P.Joint	---	---	---	209.80
e) 150 mm (6" dia)	P.Joint	---	---	---	314.71
f) 200 mm (8" dia)	P.Joint	---	---	---	314.71
g) 250 mm (10" dia)	P.Joint	---	---	---	314.71
h) 300 mm (12" dia)	P.Joint	---	---	---	419.61
i) 350 mm (14" dia)	P.Joint	---	---	---	419.61
j) 400 mm (16" to 18" dia)	P.Joint	---	---	---	637.84
k) 500 mm (20" to 24" dia)	P.Joint	---	---	---	744.14

N- P.V.C joints i/c cost of jointing with materials.

Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVC pipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.

a) 50 mm (2" dia)	P.Joint	---	---	---	245.78
b) 75 mm (3" dia)	P.Joint	---	---	---	256.84
c) 100 mm (4" dia)	P.Joint	---	---	---	278.95
d) 125 mm (5" dia)	P.Joint	---	---	---	286.32
e) 150 mm (6" dia)	P.Joint	---	---	---	401.84
f) 200 mm (8" dia)	P.Joint	---	---	---	429.48
g) 250 mm (10" dia)	P.Joint	---	---	---	484.77
h) 300 mm (12" dia)	P.Joint	---	---	---	646.35
i) 350 mm (14" dia)	P.Joint	---	---	---	690.58
j) 400 mm (16" to 18" dia)	P.Joint	---	---	---	969.53
k) 500 mm (20" to 24" dia)	P.Joint	---	---	---	1186.40

NOTES:-

- (1) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (2) All leaks and other defects, if any, shall be made good by the contractor at his own cost.

N- TUBE WELLS.

- 1 Boring for tube well in all water bearing soils from ground level upto 100 ft. or 30.5 meter depth i/c sinking and with drawing of casing pipe.

a) 80 mm (3" dia)	R.M	---	3365.37	Rft.	---	1025.72
b) 100 mm (4" dia)	R.M	---	5319.43	Rft.	---	1621.28
c) 125 mm (5" dia)	R.M	---	6752.62	Rft.	---	2058.10
d) 150 mm (6" dia)	R.M	---	9329.34	Rft.	---	2843.45
e) 200 mm (8" dia)	R.M	---	12068.37	Rft.	---	3678.26

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10
f)	250 mm (10" dia)	R.M	---	14373.34	Rft.	---	4380.78		
g)	300 mm (12" dia)	R.M	---	16678.31	Rft.	---	5083.30		
h)	375 mm (15" dia)	R.M	---	19666.45	Rft.	---	5994.04		
i)	450 mm (18" dia)	R.M	---	22796.95	Rft.	---	6948.17		
2 Boring for tube well in all water bearing soils from depth 100.1 to 200 ft. or 30.51 meter below ground level i/c sinking and with drawing of casing pipe.									
a)	125 mm (5" dia)	R.M	---	9167.04	Rft.	---	2793.98		
b)	150 mm (6" dia)	R.M	---	11743.77	Rft.	---	3579.33		
c)	200 mm (8" dia)	R.M	---	14048.74	Rft.	---	4281.85		
d)	250 mm (10" dia)	R.M	---	16353.71	Rft.	---	4984.37		
e)	300 mm (12" dia)	R.M	---	19179.55	Rft.	---	5845.64		
f)	375 mm (15" dia)	R.M	---	22310.05	Rft.	---	6799.77		
g)	450 mm (18" dia)	R.M	---	26487.96	Rft.	---	8073.14		
3 Boring for tube well in all water bearing soils from depth 200.1 to 300 ft. or 60.01 to 91.50 meter below ground level i/c sinking and with drawing of casing pipe.									
a)	125 mm (5" dia)	R.M	---	10279.32	Rft.	---	3132.98		
b)	150 mm (6" dia)	R.M	---	12856.04	Rft.	---	3918.33		
c)	200 mm (8" dia)	R.M	---	15161.02	Rft.	---	4620.85		
d)	250 mm (10" dia)	R.M	---	17465.99	Rft.	---	5323.37		
e)	300 mm (12" dia)	R.M	---	21041.86	Rft.	---	6413.25		
f)	375 mm (15" dia)	R.M	---	24483.49	Rft.	---	7462.20		
g)	450 mm (18" dia)	R.M	---	40156.96	Rft.	---	12239.24		
4 Boring for tube well in all water bearing soils from depth 300.1 to 400 ft. or 91.51 to 122 meter below ground level i/c sinking and with drawing of casing pipe.									
a)	200 mm (8" dia)	R.M	---	18530.35	Rft.	---	5647.77		
b)	250 mm (10" dia)	R.M	---	21498.55	Rft.	---	6552.44		
c)	300 mm (12" dia)	R.M	---	24212.01	Rft.	---	7379.46		
d)	375 mm (15" dia)	R.M	---	29357.06	Rft.	---	8947.59		
e)	450 mm (18" dia)	R.M	---	42002.47	Rft.	---	12801.73		

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

5	Providing storng, substantially built wooden locked box with compartments for preserving 2 LBs (1 Kg) sample of strata.	P.Sample		12387.60	---	---			
6	Taking and preserving 2 LBs (1 Kg) sample of per strata from borre holes.	P.Sample		2880.00	---	---			
7	Taking samples of water from bore hole and placing in two separate bottles.	P.Sample		2952.00	---	---			
8a	Development of tube well Testing charges of samples from Laboratory	P.Rft		240.00	---	---			
8b	Supplying & fixing M.S bail plug	P.Each		15373.80					
9	Supplying and installing PVC strainers 'B' class of approved design quality and make i/c necessary sockets etc. complete.								
a)	100 mm (4" dia)	R.M	---	1469.72	Rft.	---	447.95		
b)	125 mm (5" dia)	R.M	---	1981.36	Rft.	---	603.89		
c)	150 mm (6" dia)	R.M	---	2749.20	Rft.	---	837.91		
d)	200 mm (8" dia)	R.M	---	4156.24	Rft.	---	1266.76		
e)	250 mm (10" dia)	R.M	---	6296.84	Rft.	---	1919.18		
f)	300 mm (12" dia)	R.M	---	8706.57	Rft.	---	2653.63		
g)	375 mm (14" dia)	R.M	---	10396.72	Rft.	---	3168.76		
10	Supplying and installing PVC strainers 'C' class of approved design quality and make i/c necessary sockets etc. complete.								
a)	100 mm (4" dia)	R.M	---	1838.16	Rft.	---	560.25		
b)	125 mm (5" dia)	R.M	---	2703.31	Rft.	---	823.93		
c)	150 mm (6" dia)	R.M	---	3815.64	Rft.	---	1162.95		
d)	200 mm (8" dia)	R.M	---	5819.28	Rft.	---	1773.63		
e)	250 mm (10" dia)	R.M	---	8868.08	Rft.	---	2702.86		
f)	300 mm (12" dia)	R.M	---	12349.19	Rft.	---	3763.85		
g)	375 mm (14" dia)	R.M	---	14821.22	Rft.	---	4517.29		
11	Supplying and installing PVC strainers 'D' class of approved design quality and make i/c necessary sockets etc. complete.								
a)	100 mm (4" dia)	R.M	---	2344.88	Rft.	---	714.68		
b)	125 mm (5" dia)	R.M	---	3441.52	Rft.	---	1048.92		
c)	150 mm (6" dia)	R.M	---	4902.00	Rft.	---	1494.06		
d)	200 mm (8" dia)	R.M	---	7439.26	Rft.	---	2267.38		
e)	250 mm (10" dia)	R.M	---	11374.64	Rft.	---	3466.82		
f)	300 mm (12" dia)	R.M	---	15896.22	Rft.	---	4844.93		
g)	375 mm (14" dia)	R.M	---	19142.47	Rft.	---	5834.34		

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

12 Supplying and installing PVC strainers 'E' class of approved design quality and make i/c necessary sockets etc. complete.

a) 100 mm (4" dia)	R.M	---	2768.42	Rft.	---	843.77
b) 125 mm (5" dia)	R.M	---	4120.12	Rft.	---	1255.75
c) 150 mm (6" dia)	R.M	---	5860.23	Rft.	---	1786.11
d) 200 mm (8" dia)	R.M	---	8895.91	Rft.	---	2711.34
e) 250 mm (10" dia)	R.M	---	13664.33	Rft.	---	4164.68

13 Supplying and installing M.S blind pipe 3/16" (5 mm) thick of best and approved quality and make i/c necessary sockets etc. complete.

a) 125 mm (5" dia)	R.M	---	7090.54	Rft.	---	2161.09
b) 150 mm (6" dia)	R.M	---	8596.94	Rft.	---	2620.22
c) 200 mm (8" dia)	R.M	---	11313.37	Rft.	---	3448.15
d) 250 mm (10" dia)	R.M	---	14126.37	Rft.	---	4305.51
e) 300 mm (12" dia)	R.M	---	16625.71	Rft.	---	5067.27
f) 375 mm (15" dia)	R.M	---	20615.15	Rft.	---	6283.19

14 Supplying and installing PVC blind pipe 'B' Class of approved design quality and make i/c necessary sockets etc. complete.

a) 100 mm (4" dia)	R.M	---	1469.72	Rft.	---	447.95
b) 125 mm (5" dia)	R.M	---	1981.36	Rft.	---	603.89
c) 150 mm (6" dia)	R.M	---	2749.20	Rft.	---	837.91
d) 200 mm (8" dia)	R.M	---	4156.24	Rft.	---	1266.76
e) 250 mm (10" dia)	R.M	---	6296.84	Rft.	---	1919.18
f) 300 mm (12" dia)	R.M	---	8706.57	Rft.	---	2653.63
g) 350 mm (14" dia)	R.M	---	10396.72	Rft.	---	3168.76

15 Supplying and installing PVC blind pipe 'C' Class of approved design quality and make i/c necessary sockets etc. complete.

a) 100 mm (4" dia)	R.M	---	1841.78	Rft.	---	561.35
b) 125 mm (5" dia)	R.M	---	2700.91	Rft.	---	823.20
c) 150 mm (6" dia)	R.M	---	3815.07	Rft.	---	1162.78
d) 200 mm (8" dia)	R.M	---	5822.32	Rft.	---	1774.56
e) 250 mm (10" dia)	R.M	---	8867.33	Rft.	---	2702.63
f) 300 mm (12" dia)	R.M	---	12346.44	Rft.	---	3763.01
g) 350 mm (14" dia)	R.M	---	14822.83	Rft.	---	4517.78

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

16 Supplying and installing PVC blind pipe 'D' Class of approved design quality and make i/c necessary sockets etc. complete.

a) 100 mm (4" dia)	R.M	---	2344.88	Rft.	714.68
b) 125 mm (5" dia)	R.M	---	3441.52	Rft.	1048.92
c) 150 mm (6" dia)	R.M	---	4902.00	Rft.	1494.06
d) 200 mm (8" dia)	R.M	---	7439.26	Rft.	2267.38
e) 250 mm (10" dia)	R.M	---	11374.64	Rft.	3466.82
f) 300 mm (12" dia)	R.M	---	15896.22	Rft.	4844.93
g) 350 mm (14" dia)	R.M	---	19142.47	Rft.	5834.34

17 Supplying and installing PVC blind pipe 'E' Class of approved design quality and make i/c necessary sockets etc. complete.

a) 100 mm (4" dia)	R.M	---	2768.42	Rft.	843.77
b) 125 mm (5" dia)	R.M	---	4120.12	Rft.	1255.75
c) 150 mm (6" dia)	R.M	---	5860.23	Rft.	1786.11
d) 200 mm (8" dia)	R.M	---	8895.91	Rft.	2711.34
e) 250 mm (10" dia)	R.M	---	13664.33	Rft.	4164.68

18 Shrouding with graded bajri (3/8" to 1/8") or (9 to 3 mm) in between bore and blind pipe for the following diameters of strainers.

a) 80 mm (3" dia)	R.M	---	1046.06	Rft.	---	318.83
b) 100 mm (4" dia)	R.M	---	1078.04	Rft.	---	328.57
c) 125 mm (5" dia)	R.M	---	1828.90	Rft.	---	557.42
d) 150 mm (6" dia)	R.M	---	2417.81	Rft.	---	736.91
e) 200 mm (8" dia)	R.M	---	2447.27	Rft.	---	745.89
f) 250 mm (10" dia)	R.M	---	3442.69	Rft.	---	1049.28
g) 300 mm (12" dia)	R.M	---	4271.62	Rft.	---	1301.93
h) 375 mm (15" dia)	R.M	---	5129.68	Rft.	---	1563.45

14 Plugging of joint of casing and blind pipe with cement concrete 1:1=1/2:3

	R.M	---	3222.01	Rft.	---	982.02
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NOTES:-

- (1) Item number 1 to 4 include the hire and depreciation charges of boring equipment casing pipe and all other tools and
- (2) All materials shall be of approved manufacture and confirm to standard specification laid down in Government of West
- (3) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by
- (4) The rates of material are at source and are exclusive of carriage charges.
- (5) The items include satisfactory testing of the tube wells.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

O- STANDARD MANHOLES.

Constructing manhole or inspection chamber for the required diameter of circular sewer and 3'-6" (1067 mm) depth with walls of B.B in cement sand mortar 1:3 cement plastered 1:3, 1/2" thick, inside of walls and 1" (25 mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 1-1/2' x1-1/2' (457x457 mm) of 1.75 cwt. (88.9 kg) embaded in plain C.C 1:2:4 and fixing 1" (25 mm) dia M.S steps 6" (150 mm) wide projecting 4" (102 mm) from the face of wall at 12" (305 mm) C/C duly painted etc. Complete as per standard specification and drawing.

a 4" to 12" dia 2'x2'x3'-6" Each --- 55584.18 Each --- 55584.18

NOTES:-

- (1) Deduct from the above cost at the rate of Rs.4234 per foot depth where the depth of manhole is less than (3'-6" or 1067 mm).
- (2) Constructing manhole for the required dia of circular sewer of 7-9" (2.36 meter) depth with walls of B.B in cement plastered 1/2" (12.5mm) thick, inside of walls and 1" (25 mm) thick over benching.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 2 Constructing manhole for the required dia of circular sewer and 7'-9" depth with walls of B.B in cement mortor 1:3 cement plastered 1:3, 1/2" thick, inside of walls and 1" (25 mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 2' x 2' (610x610 mm) of 4.5 cwt. embaded in plain C.C 1:2:4 and two way rainforced 6" thickness i/c fixing 1" (25 mm) dia M.S steps 6" (150 mm) wide projecting 4" (102 mm) from the face of wall at 12" (305 mm) C/C duly painted etc, complete as per standard specification and drawing.

a	4" to 9" dia 4'x3'x7'-9"	Each	---	146248.37	Each	---	146248.37
b	12" dia 4'-6" x 3'x7'-9"	Each	---	152361.15	Each	---	152361.15
c	15" dia 4'-6" x 3'x7'-9"	Each	---	153264.17	Each	---	153264.17
d	18"to21" dia 4'x6"x4'x7'-9"	Each	---	165505.15	Each	---	165505.15
e	24" to 4'-6" x 4'x6"x7'-9"	Each	---	172725.24	Each	---	172725.24

NOTE:-

If the depth of manhole is less than 7'-9" or (3.36 m) deduct from the above cost at the following rates.

a	4" to 9" dia 4'x3'x7'-9"	Each	---	7475.00	Each	---	7475.00
b	12" dia 4'-6" x 3'x7'-9"	Each	---	7855.64	Each	---	7855.64
c	15" dia 4'-6" x 3'x7'-9"	Each	---	8245.58	Each	---	8245.58
d	18"to21" dia 4'x6"x4'x7'-9"	Each	---	8637.73	Each	---	8637.73
e	24" to 4'-6" x 4'x6"x7'-9"	Each	---	9027.68	Each	---	9027.68

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

3 Constructing manhole or inspection chamber for the required dia of circular sewer and 12' depth with walls of B.B in cement mortar 1:3 cement plastered 1:3, 1/2" thick, inside of walls and 1" (25 mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 2' x 2' (457x457 mm) of 4.5 cwt. embaded in 9" thick R.C.C 1:2:4 two way reinforced i/c fixing 1" (25 mm) dia M.S steps 6" (150 mm) wide projecting 4" (102 mm) from the face of wall at 12" (305 mm) C/C duly painted etc, complete as per standard specification and drawing.

a 4" to 12" dia	4'-6"x3'x12'	Each	---	183472.50	Each	---	183472.50
b 15" dia	4'-6" x 3'x6'x12'	Each	---	195925.10	Each	---	195925.10
c 18" to 21" dia	4'-6"x 4'x12'	Each	---	208485.37	Each	---	208485.37
d 24" dia	4'x6"x4'x6"x12'	Each	---	220868.55	Each	---	220868.55

NOTES:-

If the depth of manhole is less than 12' or (3.36 meters) deduct from the above cost at the following rates.

a 4" to 9" dia	4'-6"x3'x12'	R.M	---	8257.35	Rft.	---	8257.35
b 15" dia	4'-6" x 3'x6'x12'	R.M	---	8667.53	Rft.	---	8667.53
c 18" to 21" dia	4'-6"x 4'x12'	R.M	---	8770.84	Rft.	---	8770.84
d 24" dia	4'x6"x4'x6"x12'	R.M	---	9489.74	Rft.	---	9489.74

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

NOTE:-1.

The above rates provided for 9" thick RCC slabs two way reinforced and C.I manhole cover with frame of 4.5 Cwt.

NOTE:-2.

Depth of the manhole shall be measured vertically from the top of the invert level of the main sewer.

P- VALVE CHAMBERS.

- 1 Providing Chamber 3'x2' (915x615 mm) inside dimension 4 1/2' (1372 mm) deep as per approved design for sluice valve 3" to 12" dia with 18" (457 mm) dia inside cast iron cover and frame (wt=1 cwt 3 qr) fixed in RCC 1:2:4 (102 mm) thick (with 5 Lbs steel per cft) 9" (299 mm) thick burnt brick masonry wall set in 1:6 cement mortar 6" (1152 mm) thick cement concrete 1:3:6 in foundation 1" (25 mm) thick cement concrete 1:3:6 in foundation 1" (25 mm) thick cement concrete 1:2:4 flooring 1/2" (12.5 mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S foot rest at every one foot beyond 2 1/2 ft depth curing, excavation, back filling and disposal of surplus earth etc. complete.

Each --- 63209.83 Each --- 63209.83

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 2 Add for extra depth beyond 4-1/2'(1372 mm) i/c cost of C.I foot rest for every 1 ft depth for depth less than 41/2' deduct at the same rates.

Inch --- 595.09

- 3 Providing Chamber 3 1/2'x2 1/2' (1064x762 mm) inside diamension 7' (2.13 meter) deep as per approved design for sluice value 15" to 24" dia with 24" (610 mm) dia inside cost iron cover and frame (wt=2 cwt 3 qr) fixed in RCC 1:2:4 slab 6" thick (with 5 Lbs steel per cft) 9" (299 mm) thick burnt brick masonry wall set in 1:6 cement mortar 6" thick cement mortar 6" thick cement concrete 1:3:6 in foundation 1" thick cement concrete 1:2:4 flooring 1/2" (12.5 mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S foot rest at every one foot beyond 2 1/2 ft depth curing, excavation, back filling and disposal of surplus earth etc. complete.

Each --- 85577.61 Each --- 85577.61

- 4 Add for extra depth beyond 4-1/2'(1372 mm) i/c cost of C.I foot rest for every 1 ft depth for depth less than 41/2' deduct at the same rates.

Inch --- 659.94

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 5 Providing Chamber 3 3/4' x 3 1/2' (1143x1067 mm) inside dimension 8' (2.44 meter) deep as per approved design for sluice value 27" to 30" dia with 30" dia inside cast iron cover and frame (wt=3 cwt) fixed in RCC 1:2:4 slab 6" thick (with 5 Lbs steel per cft) 9" (299 mm) thick burnt brick masonry wall set in 1:6 cement mortar 6" thick cement concrete 6" thick cement concrete 1:3:6 in foundation 1" thick cement concrete 1:2:4 flooring 1/2" thick cement concrete 1:2:4 flooring 1/2" thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S foot rest at every one foot beyond 2 1/2 ft depth curing, excavation, back filling and disposal of surplus earth etc. complete.

Each --- 97683.10 Each --- 97683.10

- 6 Add for extra depth beyond 8' i/c cost of C.I foot rest for every 1 ft depth for depth less than 8' deduct at the same rates.

Inch --- 750.64

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 7 Contructing small wheel valve chamber clear inside size 12" x 12" x 12" with walls of 9" thick of B.B in cement mortar 1:3 over 4" **thick** cement concrete 1:3:6 cement plastered 1/2" thick 1:3 inside i/c supplying & fixing C.I light weight manhole cover with frame and locking arrangement of 12" x 6" clear opening etc. complete.

Each --- 17087.46 Each --- 17087.46

- 8 Contructing small wheel valve chamber clear inside size 12" x 12" x 12" with walls of 9" thick of B.B in cement mortar 1:3 over 4" **thick** cement concrete 1:3:6 cement plastered 1/2" thick 1:3 inside i/c supplying & fixing C.I light weight manhole cover with frame and locking arrangement of 12" x 12" clear opening etc. complete.

Each --- 18087.46 Each --- 18087.46

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 9 Constructing small wheel valve chamber clear inside size 18" x 18" x 18" with walls of 9" thick of B.B in cement mortar 1:3 over 4" **thick** cement concrete 1:3:6 cement plastered 1/2" thick 1:3 inside i/c supplying & fixing C.I light weight manhole cover with frame and locking arrangement of 18" x 18" clear opening etc. complete.

Each --- 26412.93 Each --- 26412.93

- 10 Constructing a masonry chamber for screw down or spindle fire hydrants 2' x 1-8" x 2-6" clear inside dimensions of 9" thick of B.B in cement mortar 1:3 over 1/2" **thick** cement concrete 1:3:6 cement plastered 1/2" thick 1:3 C.C 1:4:8 as per type drawing No.WS-P/1 i/c 6" thick one way reinforced RCC slab and 15" x 13" clear opening surface box weight not less than 1.75 Cwt (88.9 kg) etc. complete.

Each --- 48045.63 Each --- 48045.63

NOTE:-2.

Depth of chamber has been assumed as measured vertically from top of cast iron cover to top surface of flooring.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

Q- MISCELLANEOUS.

A. High Service Reservoir.

- 1 RCC work for braces beams columns slabs of HSR in cement stone bajri and hill sand 1:2:4 i/c centring, smooth finishing curing etc. complete.

PM³ --- 54332.92 Cft. --- 1538.74

NOTE:-

(a) The raft foundation beams plinth beams} bracing columns slab upto 20 ft. height will be paid for at the normal rate (as per item 7 a/I P-17 schedule of Rates (General) for finished item of work Vol. III part II at Rs.335.90 per Cft. All braces, beams columns slab above 20 ft. height will be paid for at this rate i.e Rs.511.00 per Cft.

- b) RCC circular side wall ring beams for HSR of cement stone bajri and hill sand 1:2:4 i/c centering smooth finishing curing etc complete.

PM³ --- 48722.69 Cft. --- 1379.86

- (c) RCC domical or flat roof slab of HSR of cement stone bajri and hill sand in proportion 1:1-1/2:3 i/c centring smooth finishing curing etc complete.

PM³ --- 55149.16 Cft. --- 1561.86

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 2 Water proofing layer over the domical or flat roof slab of the HSR in 2 coats of bitumen laid hot using 34 Lbs for % Sft and blending with sand at 1 Cft. Per % Sft.

PM² --- 162304.70 P%Sft --- 15084.08

- 3 P/F in position in C.C foundation 1:3:6 M.S ladder of M.S angle iron 2"x2"x1/4" 1' apart with M.S bar 3/4" dia spaced 1' apart painting 3 coats with anticorrosive steel paint etc complete.

R.M --- 13780.99 Rft. --- 4200.24

- 4 P/F C.I ventilator (weight not less than 80 Lbs/each) in tank roof of approved design with water tight joint i/c painting etc complete.

Each --- 19970.09 Each --- 19970.09

- 5 P/F float guage arrangments of M.S angle iron 2" x 2" x 1/4" of approved design i/c painting lettering etc complete.

R.M --- 5563.95 Rft. --- 1695.81

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

B. Expansion and Construction joints.

- 1 Providing "expansion joint" in concrete work of 9" wide corugated PVC (with bulb) i.c soldering and providing wooden key of partial wood i/c cutting of planks to the exact shape of structure and cost of the material and labour etc complete.

R.M --- 5880.14 Rft. --- 1792.18

- 2 Providing "consturction Joint" in concrete work of 9" wide corugated PVC waterstop (with bulb) i.c soldering cost of material and labour etc complete.

R.M --- 1863.92 Rft. --- 568.09

C. Filter Media.

- 1 Supplying and stacking at site stone metal of size 3/4" -1 1/2"(19mm to 38mm) ring i/c screening washing and spreading the same in filter beds to correct level etc complete.

PM³ --- 4692.28 %Cft --- 13288.80

- 2 Supplying and stacking at site gravel of size 1/8" - 1/4" (80mm to 160mm)ring i/c screening washing and spreading the same in filter beds to correct level etc complete.

PM³ --- 4019.83 %Cft --- 11384.40

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 3 Supplying and stacking at site filter sand for slow sand filters of effective size 0.25mm to 0.4mm i/c double screening washing and spreading the same in filter beds to correct level etc complete.

PM³ --- 7680.77 %Cft --- 21752.40

- 4 Supplying and stacking at site filter media for rapid gravity filters of predominantly coarse quartz sand (or of other approved quality) of specified effective size & uniformly co-efficient i/c screening, washing and spreading the same in filter beds to proper level etc complete.

PM³ --- 9477.77 %Cft --- 26841.60

- 5 Taking out filter media from beds washing screening and relaying the same into filter beds to proper level etc complete.

PM³ --- 3228.75 %Cft --- 9144.00

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

D. Constructing of standard open drains
cunette block of cement concrete
(1:2:4) in situ to the design profile
i/c cost of mould as per drawing i/c
applying floating cost of cement
1/32" thick to the exposed face
finished smooth curing etc complete
as per detailed drawing.

- i TYPE I (A) DRAIN.
(C.C 1:2:4 0.35 CFT PER RFT). R.M --- 1921.35 Rft. --- 585.60
- ii TYPE II (B) DRAIN.
(C.C 1:2:4 0.74135 CFT PER RFT). R.M --- 3326.93 Rft. --- 1014.00
- iii TYPE III (C) DRAIN.
(C.C 1:2:4 1.378 CFT PER RFT). R.M --- 5740.44 Rft. --- 1749.60

CHAPTER-II

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

R-1 Cleaning of collecting tank/sump below ground level i/c dewatering of sullage water & disposal of garbage,solid waste etc:out side the tank etc complete.

PM³ 1565.6454 %0Cft --- 44340.00

R-2 Cleaning of under ground sewer by mechanical or manual method taking out waste solids etc. and disposing off within one chain etc. complete (without cartage).

PM³ 7923.564 P.Cft --- 224.40

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

A- (I) EARTH WORK (FOR PIPE LINES).

- 1 Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 645.75 %oCft --- 18288.00

- 2 Excavation for pipe line in trenches, and pits in sandy soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 672.66 %oCft --- 19050.00

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 3 Excavation for pipe line in trenches, and pits in hard soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 699.56 %oCft --- 19812.00

- 4 Excavation for pipe line in trenches, and pits in gravely soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 753.37 %oCft --- 21336.00

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 5 Excavation for pipe line in trenches, and pits in all kind of soils of murum i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 834.09 %oCft --- 23622.00

- 6 Excavation for pipe line in trenches, and pits in soft rock by hammering and chieslling where blasting is not practicable or prohibited i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 2335.46 %oCft --- 66141.60

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 7 Excavation for pipe line in trenches, and pits in soft rock by blasting i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 1374.00 %oCft --- 38912.40

- 8 Excavation for pipe line in trenches, and pits in sandy or disintegrated rock by hammering and chieslling where blasting is not practicable or prohibited i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 2227.84 %oCft --- 63093.60

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 9 Excavation for pipe line in trenches, and pits in disintegrated rock by blasting i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 764.65 %oCft --- 34340.40

- 10 Excavation for pipe line in trenches, and pits in hard rock by hammering and chieslling i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 4331.90 %oCft --- 122682.00

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 11 Excavation for pipe line in trenches, and pits in hard rock by blasting i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 3084.50 %oCft --- 87354.72

- 12 Excavation for pipe line in trenches, and pits in starta of compact conglomeration of boulders by hammering and chieslling where blasting is not practicable or prohibited i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 2518.26 %oCft --- 112928.40

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 13 Excavation for pipe line in trenches, and pits in starta of compact conglomeration of boulders by blasting i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 2225.42 %oCft --- 63025.20

- 14 Excavation for pipe line in trenches, and pits in wet soils clay or mud i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 968.62 %oCft --- 27432.00

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 15 Excavation for pipe line in trenches, and pits in slushy daldaly soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 1937.25 %oCft --- 54864.00

(ii) Earth work for Storage Tank/Reservoir.

- 1 Excavation for tanks and reservoir in soft soils i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 559.65 %oCft --- 15849.60

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 2 Excavation for tanks and reservoir in sandy soils i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 575.79 %oCft --- 16306.80

- 3 Excavation for tanks and reservoir in hard soils i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 613.46 %oCft --- 17373.60

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 4 Excavation for tanks and reservoir in gravely soils i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 656.51 %oCft --- 18592.80

- 5 Excavation for tanks and reservoir in all kind of soils murum hard average or soft i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 747.99 %oCft --- 21183.60

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 6 Excavation for tanks and reservoir in soft rock by hammering and chiselling where blasting is not practicable or is prohibited i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 1845.77 %oCft --- 52273.20

- 7 Excavation for tanks and reservoir in disintegrated by blasting i/c trimming and dressing sides to true alignment/design sections/ profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 1163.83 %oCft --- 32960.40

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 8 Excavation for tanks and reservoir in sandy or disintegrated rock where blasting is not practicable or is prohibited by hammering and chiselling i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 1738.14 %oCft --- 49225.20

- 9 Excavation for tanks and reservoir in disintegrated rock by blasting i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 1061.88 %oCft --- 30073.20

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 10 Excavation for tanks and reservoir in hard rock where blasting is not practicable or is prohibited by hammering and chiselling disintegrated rock by blasting i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 4245.80 %oCft --- 120243.60

- 11 Excavation for tanks and reservoir in hard rock blasting i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 2484.31 %oCft --- 70357.20

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 12 Excavation for tanks and reservoir in **strata** of compact conglomeration of boulders where blasting is not practicable or is prohibited by hammering and chiselling i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 3793.78 %oCft --- 107442.00

- 13 Excavation for tanks and reservoir in **strata** of compact conglomeration of boulders by blasting i/c trimming and dressing sides to true alignment/design sections/profiles and shape levelling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharge i/c providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 2139.32 %oCft --- 60586.80

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- 14 Excavation for tanks and reservoir in wet soils clay or mud i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 882.52 %oCft --- 24993.60

- 15 Excavation for tanks and reservoir in slushy or daldally soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge. Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).

PM³ --- 1291.50 %oCft --- 36576.00

NOTES:-

Slush or daldal, that will not support mans's weight. The grant and allowance will be subject to Superintending Engineer discretion.

- 16 Add for additional lift of every three ft or part there of in item No.1 to 15 (A&B) for excavation for pipelines & storage tanks trenches and pits.

PM³ --- 198.30 %oCft --- 5616.00

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

17 Add for additional lead of every one chain or part there of in item No.1 to 15 (A&B) for excavation for pipelines & Storage tanks trenches and pits.

PM³ --- 198.30 %oCft --- 5616.00

18 Bailing or pumping out sub soil water during excavation concreting, cost in situ concrete or masonry work in foundation etc.

PM³ --- 337.70 %Cft --- 956.40

(i) Only three operation to be allowed trench volume under water to be measured first time for excavation, second time for concreting and third time for cost in situ concrete or masonry work in foundation etc.

(ii) For pipeline, trench volume under water to be measured first time for excavation, second time for cost in situconcrete (bedding in pipeline) and third time for pipe laying.

NOTE:-

In abnormal conditions, the grant and allowance of increased number of operations will be subject to Superintending Engineer's discretion.

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10
19	Providing and fixing/driving close timbering to trenches for depth upto 10 feet.	PM ²	---	4753.04	%Sft.	---	44173.20		
20	Providing and fixing/driving close timbering to trenches for depth exceeding 10 feet upto 20 feet depth.	PM ²	---	9506.07	%Sft.	---	88346.40		
21	Providing and fixing/driving Open timbering to trenches for depth upto 10 feet.	PM ²	---	1188.29	%Sft.	---	11043.60		
22	Providing and fixing/driving Open timbering to trenches for depth exceeding 10 feet upto 20 feet depth.	PM ²	---	2376.45	%Sft.	---	22086.00		
23	Full hire charges of the pumping set per day inclusive of wage of driver and Assistant fuel or electric energy plate forms required for placing pumps etc. at lower depth with suction and delivery pipes for pumping out water found at various depths from trenches i/c the cost of erection and dismantling after completion of the job.								
	i) Hire charges of pumping set of upto 10 H.P pumping out water from 10 ft. deep trench.	P.Day		7468.80	P.Day		7468.80		

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

- ii) Hire charges of pumping set of upto
10 H.P pumping out water from 15
ft. deep trench.

P.Day 11205.60 P.Day 11205.60

- iii) Hire charges of pumping set of upto
10 H.P pumping out water from 20
ft. deep trench.

P.Day 14937.60 P.Day 14937.60

- iv) Hire charges of pumping set of upto
10 H.P (but not less than 5 H.P)
pumping out water from 10 ft. deep
trench.

P.Day 5345.20 P.Day 5345.20

- v) Hire charges of pumping set of upto
10 H.P (but not less than 5 H.P)
pumping out water from 15 ft. deep
trench.

P.Day 7468.80 P.Day 7468.80

- vi) Hire charges of pumping set of upto
10 H.P (but not less than 5 H.P)
pumping out water from 20 ft. deep
trench.

P.Day 9958.80 P.Day 9958.80

NOTE:-

For working the pump beyond 8 hours the following payment shall be made. The hire of the pumping set itself being for

- i) For a pumping set of upto 10 H.P. P.Hour 933.60 P.Hour 933.60
ii) For a pumping set of upto 10 H.P (but not less than 5 H.P). P.Hour 584.00 P.Hour 584.00

- 24 Refilling the excavated stuff in
trenches 6" thick layer i/c watering
ramming to full compaction etc.
complete.

PM³ --- 495.07 %0Cft --- 14020.80

S #	Description.	Unit	S.I Unit.		Unit	Imperial Unit		Special function	Remarks
			Rates in Rs.			Rates in Rs.			
			Labour	Composite		Labour	Composite		
1	2	3	4	5	6	7	8	9	10

B- Laying C.I/M.S pipe (S&S) and (Flanged).

- 1 Laying cost iron/M.S pipe (S&S) Flanged and special and fixing in trenches i/c cutting, fitting and testing with water to specified pressure.

a)	80 mm (3" dia)	R.M	---	105.48	Rft.	---	32.15
b)	100 mm (4" dia)	R.M	---	140.64	Rft.	---	42.86
c)	125 mm (5" dia)	R.M	---	146.50	Rft.	---	44.65
d)	150 mm (6" dia)	R.M	---	175.80	Rft.	---	53.58
e)	200 mm (8" dia)	R.M	---	210.96	Rft.	---	64.30
f)	225 mm (9" dia)	R.M	---	263.69	Rft.	---	80.37
g)	250 mm (10" dia)	R.M	---	316.43	Rft.	---	96.44
h)	268.75 mm (10.75" dia)	R.M	---	367.47	Rft.	---	112.00
i)	300 mm (12" dia)	R.M	---	421.91	Rft.	---	128.59
j)	318.75 mm (12.75" dia)	R.M	---	455.60	Rft.	---	138.86
k)	350 mm (14" dia)	R.M	---	492.22	Rft.	---	150.02
l)	375 mm (15" dia)	R.M	---	537.92	Rft.	---	163.95
m)	400 mm (16" dia)	R.M	---	562.55	Rft.	---	171.46
n)	450 mm (18" dia)	R.M	---	632.87	Rft.	---	192.89
o)	500 mm (20" dia)	R.M	---	684.42	Rft.	---	208.60
p)	525 mm (21" dia)	R.M	---	746.53	Rft.	---	227.53
q)	550 mm (22" dia)	R.M	---	775.83	Rft.	---	236.46
r)	600 mm (24" dia)	R.M	---	801.61	Rft.	---	244.32
s)	650 mm (26" dia)	R.M	---	827.40	Rft.	---	252.18
t)	675 mm (27" dia)	R.M	---	856.70	Rft.	---	261.11
u)	700 mm (28" dia)	R.M	---	902.41	Rft.	---	275.04
v)	750 mm (30" dia)	R.M	---	935.09	Rft.	---	285.00
w)	800 mm (32" dia)	R.M	---	993.81	Rft.	---	302.90

NOTES:-

- (1) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by contractor at his own cost.
- (2) All leaks and other defects, if any, shall be made good by the contractor at his own cost.
- (3) Measurement will be taken over all and no extra payment will be made for fixing special etc.

C- Laying and jointing RCC/ASTM and Pre-stressed RCC pipe(Rubber Gasket Joints).

a)	225 mm (9" dia)	R.M	---	605.23	Rft.	---	184
b)	300 mm (12" dia)	R.M	---	803.98	Rft.	---	245
c)	375 mm (15" dia)	R.M	---	1008.71	Rft.	---	307
d)	450 mm (18" dia)	R.M	---	1210.45	Rft.	---	369
e)	525 mm (21" dia)	R.M	---	1412.19	Rft.	---	430
f)	600 mm (24" dia)	R.M	---	1613.94	Rft.	---	492
g)	675 mm (27" dia)	R.M	---	1829.50	Rft.	---	558
h)	750 mm (30" dia)	R.M	---	2032.78	Rft.	---	620
i)	825 mm (33" dia)	R.M	---	1863.38	Rft.	---	568
j)	900 mm (36" dia)	R.M	---	2439.37	Rft.	---	743

j)	1050 mm (42" dia)	R.M	---	3175.86	Rft.	---	968
k)	1200 mm (48" dia)	R.M	---	3630.45	Rft.	---	1107
l)	1350 mm (54" dia)	R.M	---	4084.25	Rft.	---	1245
m)	1500 mm (60" dia)	R.M	---	4538.06	Rft.	---	1383
n)	1650 mm (66" dia)	R.M	---	4159.88	Rft.	---	1268
o)	1800 mm (72" dia)	R.M	---	5445.70	Rft.	---	1660
p)	2100 mm (84" dia)	R.M	---	6353.30	Rft.	---	1936

NOTES:-

- (1) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by
- (2) All leaks and other defects, if any, shall be made good by the contractor at his own cost.
- (3) All measurement of the completed pipe line will be taken along the central axis of the pipe and shall exclude the length

D- Laying and jointing F.C pressure pipes 'B','C','D'.

- 1 Laying Fiber Cement pressure pipes and comet joint of class 'B' 'C' & 'D' and fixing in trench i/c cutting fitting and jointing with rubber ring i/c testing with water to specified pressure.

a)	80 mm (3" dia)	R.M	---	56.58	Rft.	---	17.24
b)	100 mm (4" dia)	R.M	---	75.44	Rft.	---	22.99
c)	150 mm (6" dia)	R.M	---	113.16	Rft.	---	34.49
d)	200 mm (8" dia)	R.M	---	150.87	Rft.	---	45.98
e)	250 mm (10" dia)	R.M	---	188.59	Rft.	---	57.48
f)	300 mm (12" dia)	R.M	---	226.31	Rft.	---	68.98
g)	350 mm (14" dia)	R.M	---	264.03	Rft.	---	80.47
h)	400 mm (16" dia)	R.M	---	301.75	Rft.	---	91.97
i)	450 mm (18" dia)	R.M	---	339.47	Rft.	---	103.46
j)	500 mm (20" dia)	R.M	---	377.18	Rft.	---	114.96
k)	600 mm (24" dia)	R.M	---	452.62	Rft.	---	137.95
l)	700 mm (28" dia)	R.M	---	528.06	Rft.	---	160.94
m)	800 mm (32" dia)	R.M	---	603.49	Rft.	---	183.94
n)	1000 mm (40" dia)	R.M	---	754.37	Rft.	---	229.92

i) The FC pipes shall be used in sewerage/ drainage purpose not for use in water supply schemes.

(ii) Fiber Cement pipes fitters would be provided with mask by the Contractor/ employers as precautinary measures for prevating of Fiber dust.

E- Laying and jointing C.I specials and fitting for F.C pipes.

- 1 Makaing joints to C.I specials fitting (i/c laying) of the required diameter and testing the joints along with the Fiber Cement pressure pipes lines to the specified pressure and making good to all leaky joints etc. complete.

a)	80 mm (3" dia)	Joint	---	255.00	Joint	---	255.00
b)	100 mm (4" dia)	Joint	---	255.00	Joint	---	255.00
c)	150 mm (6" dia)	Joint	---	300.00	Joint	---	300.00
d)	200 mm (8" dia)	Joint	---	300.00	Joint	---	300.00
e)	250 mm (10" dia)	Joint	---	300.00	Joint	---	300.00
f)	300 mm (12" dia)	Joint	---	375.00	Joint	---	375.00
g)	400 mm (16" dia)	Joint	---	375.00	Joint	---	375.00
h)	450 mm (18" dia)	Joint	---	375.00	Joint	---	375.00
i)	500 mm (20" dia)	Joint	---	450.00	Joint	---	450.00
j)	600 mm (24" dia)	Joint	---	450.00	Joint	---	450.00

F- Laying and jointing C.I/M.S Specials (Rubber Gasket Joints).

- 1 Making joints to C.I/M.S specials fitting (Tyton) (i/c laying) of the required diameter and testing the joints along with the Asbestos Cement pressure pipes lines to the specified pressure and making good to all leaky joints etc. complete.

a)	80 mm (3" dia)	Joint	---	383.00	Joint	---	383.00
b)	100 mm (4" dia)	Joint	---	383.00	Joint	---	383.00
c)	150 mm (6" dia)	Joint	---	450.00	Joint	---	450.00
d)	200 mm (8" dia)	Joint	---	450.00	Joint	---	450.00
e)	250 mm (10" dia)	Joint	---	450.00	Joint	---	450.00
f)	300 mm (12" dia)	Joint	---	564.00	Joint	---	564.00
g)	400 mm (16" dia)	Joint	---	564.00	Joint	---	564.00
h)	450 mm (18" dia)	Joint	---	564.00	Joint	---	564.00
i)	500 mm (20" dia)	Joint	---	789.00	Joint	---	789.00
j)	600 mm (24" dia)	Joint	---	789.00	Joint	---	789.00

NOTES:-

- (1) All the tools equipments and machinery required for laying jointing and testing of the pipeline shall be arranged by
- (2) All leaks and other defects, if any, shall be made good by the contractor at his own cost.



GOVERNMENT OF SINDH

SCHEDULE OF RATES

PART-C

FOR M.S. SPECIALS

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate
	1A Providing & fixing M.S. Sleeve collar on PRCC pipe 18 wide fabricated with 3/8 thick MS plate 1-1/4" wide 3/8" thick ring at centre. 3/4" thick M.S. square bars on both ends with a total weight as mentioned against each item. It includes the cost of sealing material, etc complete.				
1		12 inch	56.58	Each	34565
2		15 inch	69.15	do	41418
3		18 inch	78.58	do	46899
4		24 inch	100.58	do	57772
5		33 inch	132.02	do	82715
6		36 inch	141.45	do	87326
7		48 inch	182.31	do	106581
8		54 inch	201.17	do	115119
9		66 inch	242.03	do	134377
	1B Providing & fixing M.S. Sleeve collar on PRCC pipe 18" wide fabricated with 1/2" thick M S. plate. 1-1/4" wide 1/2" thick ring at centre 3/4" thick M.S. square bars on both ends with a total weight as mentioned against each item. It includes the cost of sealing materia, labour etc complete.				
10		72 inch	335.29	do	176802
11		84 inch	383.77	do	200498

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia		Weight (kg)	Unit	Rate
2	2 A Providing & fixing M.S. Split collar on PRCC pipe 18" wide fabricated with 3/8" thick MS. plate. 1 1/4" wide 3/8" thick ring at centre, 3/4" thick M.S. square bars on both ends with a total weight as mentioned against each item. It includes the cost of 4 Nos. 3/4" thick flanges, nuts & bolts, rubber packing, labour and sealing material etc complete.					
1		12	inch	80.88	Each	49478
2		15	inch	93.45	do	55689
3		18	inch	102.88	do	61823
4		24	inch	124.88	do	81463
5		33	inch	156.31	do	109966
6		36	inch	165.74	do	114897
7		48	inch	206.6	do	136316
8		54	inch	225.46	do	146181
9						
		66	inch	266.33	do	170793
	2 B Providing & fixing M.S. Split collar on PRCC pipe 18" wide fabricated with 1/2" thick M.S. plate, 1 1/4" wide 1/2" thick ring at centre, 3/4" thick M.S. square bars on both ends with a total weight as mentioned against each item. It includes the cost of 4 Nos. 3/4" thick flanges, nuts & bolts, rubber packing, labour and sealing material etc complete.					
10		72	inch	360.75	do	220375
11		84	inch	409.22	do	246820

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate	
3	3A Providing & fixing M.S. Split stepped collar on PRCC pipe 18" wide-fabricated with 3/8" thick MS plate. 3/4" thick M.S. square bars on both ends with a total weight as mentioned against each item. It includes the cost of 4 Nos. 3/4" thick M.S.flanges, nuts & bolts, rubber packing, labour and sealing material etc complete.					
1		12	inch	96.08	Each	56392
2		15	inch	109.41	do	63590
3		18	inch	119.41	do	69330
4		24	inch	142.74	do	80808
5		33	inch	181.14	do	110271
6		36	inch	196.74	do	117351
7		48	inch	242.03	do	138574
8		54	inch	283.84	do	157551
9		66	inch	332.09	do	182004
	3B Providing & fixing M.S. Spilt stepped collar on PRCC pipe 181 wide fabricated with 1/2" thick MS plate, 3/4" thick M.S. square bars. on both ends with a total weight as mentioned against each item. It includes the cost of 4 Nos. 3/4" thick M.S.flanges, nuts & bolts, rubber packing, labour and sealing material etc complete.					
10		72	inch	453.37	do	190893
11		84	inch	541.13	do	278758

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate
4	Providing and fixing of Split collar 9" on A.C pipe fabricated with 1/4" thick M.S Plate weighing as mentioned against each item. It includes the cost of 4 Nos- 1/4" thick flanges, nuts & bolts rubber packing, labour and the sealing material, etc complete.				
1		3 inch	7.77	Each	4906
2		4 inch	8.68	do	5333
3		6 inch	10.49	do	6220
4		8 inch	12.31	do	7567
5		10 inch	14.13	do	8439
6		12 inch	15.95	do	9313
7		14 inch	17.76	do	10185
8		16 inch	19.58	do	11060
9		18 inch	21.4	do	12885
10		20 inch	23.22	do	13730
11		22 inch	25.04	do	14621
12		24 inch	26.85	do	15493

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate
5	5A Providing and fixing M.S Bend Fabricated with 1/4" thick M.S plate having an outer length and total Weight as mentioned against each item .				
1		3 inch	1.179	Each	1876
2		4 inch	1.57	do	3335
3		6 inch	2.357	do	7504
4		8 inch	3.143	do	13341
5		10 inch	3.929	do	20845
	5(B) Providing and fixing M.S Bend Fabricated with 3/8" thick M.S Plate, having an outer length and total weight as mentioned against each item .				
1		12 inch	3.143	Each	27015
2		15 inch	3.929	do	42211
3		18 inch	4.714	do	60785
4		21 inch	5.5	do	82735
5		24 inch	6.286	do	108061
6		27 inch	7.071	do	136765
7		30 inch	7.857	do	168846
8		33 inch	8.643	do	204304
9		36 inch	9.429	do	243138
10		40 inch	10.476	do	300171
11		48 inch	12.571	do	432245
12		54 inch	14.143	do	547057
13		60 inch	15.714	do	675384
14		66 inch	17.286	do	817214
	5(C) Providing and fixing M.S Bend Fabricated with 1/2" thick M.S Plate, having an outer length and total weight as mentioned against each item .				
15	do	72inch	18.857	do	1296736
16		84 inch	22	do	1765003

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate
Item No. 6(A)	Providing & fixing M.S. tail piece on PRCC Pipe fabricated with 3/8" thick M.S. plate, both caulking and reducer ends 9" wide provide with a 3/4" thick square bar at caulking end having a total weight as mentioned against each item. It includes the cost of labour caulking and sealing material.				
1		12 inch	51.81	Each	30825
2		15 inch	65.26	Each	37311
3		18 inch	75.71	Each	42060
4		24 inch	100.59	Each	54628
5		33 inch	132.64	Each	73854
6		36 inch	148.28	Each	81517
7		48 inch	197.86	Each	106246
8		54 inch	220.13	Each	116791
9		66 inch	272.05	Each	140383
Item No. 6(B)	Providing & fixing M.S. tail piece on PRCC Pipe fabricated with 1/2" thick M.S. plate, both caulking and reducer ends 9" wide provide with a 3/4" thick square bar at caulking end having a total weight as mentioned against each item. It includes the cost of labour caulking and sealing material.				
10	.-do-	72 inch	386.76	Each	193667
11	.-do-	84 inch	446.45	Each	222468

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate
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Item Providing & fixing M.S. tail piece (Dholki) on A.C. Pipe
 No. fabricated with 1/4" thick M.S. plate, having dimension and
 7 weight as mentioned against each item. It includes the cost of
 labour and sealing material etc. complete.

	SIZE / DIA	WEIGHT			
a)			Caulking end 6" wide and flanged end 3" wide.		
	3" Dia.	5.230		Each	3,175
b)	4" Dia.	6.290	do	Each	3,678
c)	6" Dia.	8.410	do	Each	4,668
d)			Caulking end 8"wide and flanged end 3" wide.		
	8" Dia.	12.750		Each	7,213
e)	10" Dia.	15.270	do	Each	8,409
f)	12" Dia.	17.800	do	Each	9,827
g)	14" Dia.	20.320	do	Each	11,019
h)	16" Dia.	22.850	do	Each	12,216
i)	18" Dia.	25.370	do	Each	14,355
j)	20" Dia.	27.900	do	Each	15,542
k)	22" Dia.	30.420	do	Each	16,709
l)	24" Dia.	32.950	do	Each	17,913

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate
Item No. 8(A)	Providing & fixing M.S. flange made of M.S. plate, having a thickness and total weight as mentioned against each item. It includes the cost of making holes, facing, welding, nuts, bolts, rubber packing, white lead, fitter, cartage etc complete.				
1	1/2" thick M.S Plate	3 inch	2.02	Each	2451
2	1/2" thick M.S Plate	4 inch	2.424	Each	2889
3	1/2" thick M.S Plate	6 inch	3.232	Each	3769
4	1/2" thick M.S Plate	8 inch	4.04	Each	4797
5	1/2" thick M.S Plate	10 inch	4.548	Each	6033
6	1/2" thick M.S Plate	12 inch	5.656	Each	7441
7	1/2" thick M.S Plate	14 inch	6.464	Each	8902
8	1/2" thick M.S Plate	15 inch	6.868	Each	9601
9	1/2" thick M.S Plate	16 inch	7.272	Each	10682
10	1/2" thick M.S Plate	18 inch	8.081	Each	12697
11	1/2" thick M.S Plate	20 inch	8.889	Each	14335

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate
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Item no. 8(B) Providing and fixing M.S flange made of M.S plate, having a thickness and total weight as mentioned against each item. It includes the cost of making holes, facing, welding, nuts, bolts, rubber packing, white lead, fitter, cartage etc complete.

1	3/4" inch thick M.S plate	21 inch	21.817	Each	25144
2	3/4" inch thick M.S plate	22 inch	22.727	Each	26539
3	3/4" inch thick M.S plate	24 inch	24.545	Each	29512
4	3/4" inch thick M.S plate	27 inch	27.272	Each	35240
5	3/4" inch thick M.S plate	30 inch	29.999	Each	40359
6	3/4" inch thick M.S plate	32 inch	31.817	Each	43940
7	3/4" inch thick M.S plate	33 inch	32.726	Each	45822
8	3/4" inch thick M.S plate	36 inch	35.453	Each	51551
9	1" inch thick M.S Plate	40 inch	52.12	Each	80101
10	1" inch thick M.S Plate	42 inch	54.544	Each	86031
11	1 1/4" inch thick M.S plate	48 inch	105.047	Each	140856
12	1 1/4" inch thick M.S plate	54 inch	117.168	Each	166922
13	1 1/4" inch thick M.S plate	60 inch	129.289	Each	195387
14	1 1/4" inch thick M.S plate	66 inch	141.410	Each	226036
15	1 1/2" inch thick M.S plate	72 inch	233.326	Each	334095
16	1 1/2" inch thick M.S plate	84 inch	269.688	Each	425696

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate	
Item no. 9	Providing & fixing of MS Split Collar tee on PRCC pipe of different sizes having width as mentioned against each item, to suit the size of connection, fabricated with 3/8" thick M.S plate excluding the cost of the neck. It includes the cost of 3/4" thick M.S square bars on both ends, 4 nos- 3/4" thick M.S flanges, with a total weight as mentioned against each item, It also includes the cost of nuts & bolts rubber packing, labour and the sealing material and all the tools and plants.					
A)						
1		12" x12"	2'-0"	104.86	Each	59549
2		12" x12"	2'-6"	128.17	Each	70285
3		15" x15"	2'-0"	121.22	Each	68961
4		15" x15"	2'-6"	148.16	Each	81352
5		15" x15"	3'-0"	175.11	Each	93864
6		18" x18"	2'-0"	133.49	Each	76010
7		18" x18"	2'-6"	163.16	Each	89643
8		18" x18"	3'-0"	192.83	Each	103394
9		24" x24"	2'-0"	162.12	Each	89899
10		24" x24"	2'-6"	198.16	Each	106434
11		24" x24"	3'-0"	234.19	Each	123082
12		24" x24"	3'-6"	270.22	Each	139615
13		33" x33"	2'-0"	203.03	Each	120994
14		33" x33"	2'-6"	248.15	Each	141907
15		33" x33"	3'-0"	293.27	Each	163179
16		33" x33"	3'-6"	338.39	Each	184092
17		36" x36"	2'-0"	215.3	Each	126560
18		36" x36"	2'-6"	263.15	Each	148713
19		36" x36"	3'-0"	311	Each	171226
20		36" x36"	3'-6"	358.85	Each	193383
21		36" x36"	4'-3"	430.62	Each	226799
22		36" x36"	4'-6"	454.55	Each	238054
23	-do-	48" x48"	2'-0"	268.47	Each	151367
24		48" x48"	2'-6"	328.14	Each	178903
25		48" x48"	3'-0"	387.8	Each	206804
26		48" x48"	3'-6"	447.47	Each	234338
27		48" x48"	4'-3"	536.97	Each	275826
28		48" x48"	4'-6"	566.81	Each	289774
29		48" x48"	5'-6"	686.14	Each	344484
30		54" x54"	2'-0"	293.01	Each	163407
31		54" x54"	2'-6"	358.13	Each	193427
32		54" x54"	3'-0"	423.25	Each	223809
33		54" x54"	3'-6"	488.38	Each	253830
34		54" x54"	4'-3"	586.06	Each	299043
35		54" x54"	4'-6"	618.62	Each	314232
36		54" x54"	5'-6"	748.86	Each	373911
37		66" x66"	2'-0"	346.18	Each	191476
38		66" x66"	2'-6"	423.12	Each	227339
39		66" x66"	3'-0"	500.06	Each	264020
40		66" x66"	3'-6"	577	Each	299882
41		66" x66"	4'-3"	692.41	Each	354084
42		66" x66"	4'-6"	730.88	Each	372424
43		66" x66"	5'-6"	884.76	Each	443329

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate	
Item no. 9	Providing & fixing MS Split collar Tee on PRCC pipe,18 wide fabricated with 1/2" thick M.S plate 1 1/4" wide- 1/2" thick ring at centre, 3/4" thick M.S square bar on both ends with a total weight as mentioned against each item. It includes the cost of 4 nos- 3/4" thick flanges, nuts & bolts rubber packing, labour and the sealing material.					
B)						
44		72" x72"	2'-0"	501.88	Each	262249
45		72" x72"	2'-6"	609.42	Each	312047
46		72" x72"	3'-0"	716.96	Each	362667
47		72" x72"	3'-6"	824.51	Each	412466
48		72" x72"	4'-3"	985.83	Each	487579
49		72" x72"	4'-6"	1039.6	Each	512889
50		72" x72"	5'-6"	1254.69	Each	611665
51	-do-	84" x84"	2'-0"	569.75	Each	294846
52		84" x84"	2'-6"	691.84	Each	351272
53		84" x84"	3'-0"	813.93	Each	408513
54		84" x84"	3'-6"	936.02	Each	464939
55		84" x84"	4'-3"	1119.16	Each	549985
56		84" x84"	4'-6"	1180.2	Each	578608
57		84" x84"	5'-6"	1424.38	Each	690635

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate
Item No. 10	Providing & fixing 0-9" long -3/8" thick M.S neck to existing M.S pipe or to a split collar tee having a total weight as mentioned against each item, for making water connection of varoius sizes. It includes the cost of fabrication and welding to the spilt collar tee.				
1		3 inch	4.777	Each	2416
2		4 inch	6.666	Each	3354
3		6 inch	10.909	Each	5430
4		8 inch	15.757	Each	7771
5		10 inch	21.211	Each	10379
6		12 inch	27.272	Each	13253
7		14 inch	33.938	Each	16392
8		15 inch	37.499	Each	18062
9		16 inch	41.211	Each	19797
10		18 inch	49.089	Each	23468
11		20 inch	57.574	Each	27406
12		22 inch	66.665	Each	31609
13		24 inch	76.361	Each	36078
14		33 inch	127.496	Each	59478
15		36 inch	147.268	Each	68475
16		48 inch	239.992	Each	110444

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate
Item no. 11	Fixing of sluice valves with 2-cast iron tailpieces, one end flanged and other with socket including the cost of nuts, bolts and rubber packing, labour etc complete.			Size/ Diameter	Rate (Rs.)
1				3 inch	4089
2				4 inch	5023
3				6 inch	6063
4				8 inch	9254
5				9 inch	9600
6				10 inch	11384
7				12 inch	13068
8				14 inch	15481
9				15 inch	18220
10				16 inch	18653
11				18 inch	23750
12				20 inch	28576

M.S SPECIALS
RATES FOR FINISHED ITEM OF WORKS

S. No.	DESCRIPTION	Size/Dia	Weight (kg)	Unit	Rate
S.No:	Description			Size/ Diameter	Rate (Rs.)
Item no: 12	Repair of leaking joints on A.C pipe of various diameters including the cost of rubber tube, labour/mistry, sand, cement and jute/spun yarn etc complete.				
1				3 inch	988.85
2				4 inch	1282.55
3				6 inch	1631.08
4				8 inch	2231.19
5				9/10 inch	3154.13
6				12 inch	3408.41
7				14 inch	3701.30
8				16 inch	3730.94
9				18 inch	4066.34
10				24 inch	4445.81

GOVERNMENT OF SINDH



SCHEDULE OF RATES

FOR

**WATER SUPPLY & SANITARY ITEMS (INTERNAL & EXTERNAL FITTINGS)
FINISHED ITEMS**

VOLUME-III PART-III

FIFTH EDITION 2024

PUBLICATION NO. 65

SCHEDULE OF RATES (GENERAL)
(FOR INTERNAL & EXTERNAL WATER SUPPLY & SANITARY WORKS)

(FINISHED ITEMS)
VOL –III, PART-III
FIFTH EDITION- 2024

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CHAPTER NO: 1
SANITARY FITTING

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
1A(i)	Providing and fixing squatting type white glazed earthen ware W.C pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and requisite number of holes in walls plinth & floor for pipe connection & making good in cement concrete 1:2:4 Far.(23 inch	P.No	1890.14	10440.50		
1A(ii)	Providing and fixing squatting type white glazed earthen ware W.C. pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4.(23 inch) earthen ware trap and plastic thumble.	P.No	1890.14	9990.05		
1B(i)	Providing and fixing squatting type white glazed earthen ware W.C. pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4.(19 inch clear)	P.No		10240.50		
1B(ii)	Providing and fixing squatting type white glazed earthen ware W.C. pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4.(19 inch) earthen ware trap and plastic thumble.	P.No		10440.50		
2-i	Providing and fixing squatting type white glazed earthen ware W.C. pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4. (Foriegn Quality)(23 inch)	P.No	1890.14	11858.54		
2A(ii)	Providing and fixing squatting type white glazed earthen ware W.C. pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4. (Foreign Quality)(23 inch) earthen ware trap and plastic thumble.	P.No	1890.14	13655.06		

2B(i)	Providing and fixing squatting type white glazed earthen ware W.C. pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4. (Foreign Quality)(19 inch)	P.No	8740.50
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S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
2B(ii)	Providing and fixing squatting type white glazed earthen ware W.C. pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4. (Foreign Quality)(19 inch) earthen ware trap and plastic thumb.	P.No		8740.50		
3(a)	Providing and fixing Orusa type white glazed earthen ware W.C. pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4.	P.No	1890.14	10440.50		
3(b)	Providing and fixing Orusa type white glazed earthen ware W.C. pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4.	P.No	1890.14	11282.90		
4	Providing and fixing European type white glazed earthen ware wash down W.C. pan complete with & including the cost of white / black plastic seat (Best quality) and lid with C.P. brass hinges best quality and buffers 3 gallons white glazed earthen ware low level flushing cistern with siphon fitting 1½ " dia white porcelain enameled flush bend dia and making requisite number of holes in walls , plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Foreign quality) . (ICL or equivalent) .	P.No	1890.14	44244.72		
5	Providing and fixing European type white glazed earthen ware wash down W.C. pan complete with & including the cost of white / black plastic seat (Best quality) and lid with C.P. brass hinges best quality and buffers 3 gallons white glazed earthen ware low level flushing cistern with siphon fitting 1½ " dia white porcelain enameled flush bend dia and making requisite number of holes in walls , plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Foreign quality) . (ICL or equivalent) .	P.No	1890.14	42354.59		
6	Providing and fixing flat black lipped front urinal basin (of not less than 17 " in height) of white glazed earthen ware complete with & including the cost of ½ " dia gun metal gate valve with standard flush pipe , waste pipe (enameled iron) complete with fitting and making requisite number of holes in walls , plinth & floor for pipe connection & making good in cement concrete 1:2:4 . (Standard pattern)	P.No	1890.14	4464.14		

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
7	Providing and fixing flat black lipped from urinal basin (of not less than 17" in height) of white glazed earthen ware complete with & including the cost of 1 gallon C.I. automatic flushing cistern with fittings, a pot cock C.I. or W.I. brackets standard flush pipe with fitting standard waste pipe (enameled iron) connection complete and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Foreign or equivalent)	P.No	1890.14	4815.14		
8	Providing and fixing 24x18" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever bracket 6 inches built into wall, painted white in two coats after a primary coat of red lead paint, a pair of 1/2" dia chrome plated pillar taps, 1-1/2" rubber plug & chrome plated brass chain 1-1/4" dia malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Standard Pattern) (Karam Ceramics).	P.No	1890.14	9495.14		
9	Add extra for providing & fixing of earth ware pedestal white or coloured Glazed (Standard pattern)	P.No	585.00	3276.00		
10	Providing and fixing 24"x18" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever bracket 6 inches built into wall, painted white in two coats after a primary coat of red lead paint, a pair of 1-1/2" dia chrome plated pillar taps, 1-1/2" rubber plug & chrome plated brass chain 1-1/4" dia malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Foreign Equivalent).	P.No	1890.14	24094.98		
11	Add extra for providing & fixing of earth ware pedestal white or coloured Glazed (Foreign or equivalent)	P.No	750.07	3675.07		
12	Providing and fixing 22"x16" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever bracket 6 inches built into wall, painted white in two coats after a primary coat of red lead paint, a pair of 1/2" dia chrome plated pillar taps, 1-1/2" rubber plug & chrome brass waste of approved pattern, 1-1/4" dia malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Standard Pattern).	P.No	1890.14	8208.14		
13	Providing and fixing 22"x16" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever bracket 6 inches	P.No	1890.14	19505.66		

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
14	Providing and fixing 28"x12" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever bracket 6 inches built into wall, painted white in two coats after a primary coat of red lead paint, a pair of 1/2" din chrome plated pillar taps, 1-1/2" rubber plug & chrome brass waste of approved pattern, 1-1/4" dia malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Standard Pattern).	P.No	1890.14	8208.14		
15	providing and fixing 28"x12" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever bracket 6 inches	P.No	1890.14	19505.66		
16	Providing and fixing fibre glass bath tub (overall) approximate size 5'-6"x2'-4"x1'-11" white porcelain enameled inside & outside painted with the desired colour complete with & including the cost of 1-1/2" C.P. brass waste, 1-1/4" dia brass overflow a pair of 3/4" C.P. brass pillar taps, C.P. brass chain with rubber plug making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Standard Pattern).	P.No	3780.27	31626.27		
17	Providing and fixing 24"x18"x8" white glazed fire-clay sinks complete with C.L or W.I. bracket 6 inches built into walls, 1-1/2" rubber plug and chrome plated brass chain 1-1/2" C.P. brass washer 1-1/2" dia malleable iron or C.P brass trap with malleable iron or brass union & making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Standard Pattern).	P.No	3780.27	13725.27		
18	Providing and fixing 24"x18"x8" white glazed fire-clay sinks complete with C.I. or W.I. bracket 6 inches built into walls, 1-1/2" rubber plug and chrome plated brass chain 1-1/2" C.P. brass washer 1-1/2" dia malleable iron or C.P brass trap with malleable iron or brass union & making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Foreign or equivalent).	P.No	3780.27	22617.27		
19	Providing and fixing steel sinks stainless local bt make complete with cast iron or wrought iron LINA ALVH brackets 6 inches built into wall, 1-1/2" rubber plug and chrome plated brass chain 1-1/2" C.P. brass waste wvith 1-1/2" P.V.C. waste pipe & making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4.					
a	Steel Sink stainless size 40"x20" local make (standard patteren)	P.No	3780.27	12555.27		
b	Steel Sink stainless size 36"x18" local make (standard patteren)	P.No	3780.27	10215.27		
c	Steel Sink stainless size 33"x18" local make (standard patteren)	P.No	3780.27	10215.27		

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
20	Providing and fixing 6"x2" or 6"x3" C.I. floor trap of the approved self cleaning design with a C.I. screwed down grating with or without a vent arm including cost of making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4	P.No	945.07	1647.07		
21	Providing and fixing a C.I. trap with 4" dia inlet and 4" dia outlet of the approved self cleaning design with a C.I. grating with or without a vent arm including cost of making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4.	P.No	945.07	1413.07		
22	P/F i/2" dia lead connection complete	P.No		760.50		
23	Providing and fixing in position nylon connection complete with " dia brass stop cock with pair of brass nuts and lining jointed to nylon connection.	P.No		637.65		

Chapter No. 2

Toilets

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
1	Providing and fixing chrome plated brass towel rail complete with brackets fixing on wooden cleats with 1" long C.P. brass screws.	Each	945.07	2700.07		
(1) b.	Towel rail 36" long 3/4" dia round or Sq: (Suparear quality).	Each	945.07	3285.07		
(II) a	Providing and fixing towel rail 30"x3/4" round or with brackets screws nuts & cleats etc. complete (Standard pattern).	Each	945.07	2115.07		
(II)b	Providing and fixing towel rail 30"x3/4" round or with brackets screws nuts & cleats etc. complete (Suparear quality).	Each	945.07	3285.07		
(III) a	Providing and fixing towel rail 24"x3/4" round or with brackets screws nuts & cleats etc. complete (Standard pattern).	Each	945.07	2349.07		
(II) b	Providing and fixing towel rail 24"x3/4" round or with brackets screws nuts & cleats etc. complete (Suparear quality).	Each	945.07	2524.57		
2. a	Providing and fixing C.P. brass toilet paper brackets complete (similar) to twyford design number 1108 (Standard pateran).	Each	-	877.50		
2. b	Providing and fixing C.P. brass toilet paper brackets complete (similar) to twyford design number 1108 (Suparear Quality).	Each	-	1170.00		
3 (a)	Providing & fixing 24"x18" bavelled edge mirror of Belgium glass completed with 1/8" thick hard and C.P. screws fixed to wooden cleats (Standard pattern).	Each	-	2106.00		
3(b)	Providing & fixing 15"x12" bavelled edge mirror of Belgium glass completed with 1/8" thick hard and C.P. screws fixed to wooden cleats (Suparear quality).	Each		3510.00		
4 (a)	Providing & fixing 15"x12" bavelled edge mirror of Belgium glass completed with 1/8" thick hard and C.P. screws fixed to wooden cleats (Standard quality).	Each		2340.00		
4 (b)	Providing & fixing 15"x12" bavelled edge mirror of Belgium glass completed with 1/8" thick hard and C.P. screws fixed to wooden cleats (Suparear quality).	Each		2925.00		
5	Supplying & fixing soap tray of superior quality and design with fine finishing with C.P. screws etc. complete.	Each		585.00		
6	Supplying & fixing soap tray plastic of superior quality and design with fine finishing with C.P. screws etc. complete.	Each		292.50		

Chapter No. 3

CAST IRON SOIL WATER AND VENT PIPE FITTINGS

- i) Pipe will be measured overall including length of fitting and paid for a pipe. The fitting then will be paid separately.
- ii) Pipe and fitting shall conform to B.S S. No. 416-1935 (Medium grade) or equivalent painted inside outside with Dr. Angus Smith solution:
The rates for pipes, special and claims or inclusive of extra painting required to match the colour building over the black factory paints, primary coats, of nothing burnish or of red lead will be applied Sub/due the original black paint, afterwards to finishing coats vide zink paint with the required pigment shall also be applied.
- iii)

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
1	Providing and fixing of 4" C.I soil and vent pipe in/c cutting and fitting and extra painting to match the colour of building. 44" dia of C.I pipe of 6" length.	P.Rft	71.19	1025.91		
2	Providing & fixing M.S. clamps of the approved design to 4" dia C.I. pipe sockets including the cost of cutting & making good to walls or M.S. bolts and nuts, bolt, 4" into wall	Each	143.65	457.21		
3	Providing & fixing 4"x4" dia C.I. 1Jccl/offset bend including extra painting to match the colour of building.	Each		491.40		
4	providing & fixing 4".x 4" dia C.I branches of the required degree with access doors, rubber washer 3/8 thick and bolts and nuts and extra painting to match the colour of buildings	Each		2241.72		
5	providing & fixing 4".x 4" dia C.I branches of the required degree with access doors, rubber washer 3/8 thick and nuts and extra painting to match the colour of buildings	Each		2241.72		
6	providing & fixing 4".x 4" dia C.I branches of the required degree with access doors, rubber washer 3/8 thick and bolts and nuts and extra painting to match the colour of buildings	Each		2241.72		
7	Providing & fixing 4"x4"x4" dia, Plain C.I. Tee branch of the required degree, including extra painting to match the colour of buildings.	Each		2218.32		
8	Providing & fixing 4" dia C.I., off-sets of various length including extra painting to match the colour of building.	Each		1375.92		
9	Providing & fixing 4" dia bend of the required degree with access door, 1/8" thick and bolts and nuts and extra painting to match the colour of buildings.	Each		2148.12		
10	Providing & fixing 4" dia bend of the required degree with access door, 1/8" thick and bolts and nuts and extra painting to match the colour of buildings.	Each		1914.12		
11	Providing fixing 4" dia:I. terminal guard including extra painting to match the colour of building.	Each		1450.80		

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
12	Providing & fixing lead caulked joints 4" dia C.I. pipes and fittings. Cost of 1 joint.	Each		1129.29		
13	Providing & fixing 3" dia C.I. waste and Vent pipe i/c cutting fitting and extra painting to match the building	P.Rft		780.21		
14	Providing & fixing M.S. clamps of the approved design to 3" dia C.I. pipe socket including the cost of cutting and making good and extra painting to match the colour of the building.	Each		427.96		
15	Providing & fixing 3" dia C.I. heel rest bend including extra painting to match the colour of the buildings.	Each		2430.97		
16	Providing & fixing 3"x3" dia C.I. branch of the required degree with access door, rubber, washer 1/8" thick and bolts and nuts and extra painting to match the colour of buildings.	Each		2241.72		
17	Providing & fixing 3"x 3"x3" dia C.I. branch of the required degree with access door, rubber, washer 1/8" thick and bolts and nuts and extra painting to match the colour of buildings.	Each		2241.72		
18	Providing & fixing 3"x 3"x3" dia C.I. branch of the required degree including extra painting to match the colour of buildings.	Each		2241.72		
19	Providing & fixing 3"x 3"x3" dia C.I. branch of the required degree including extra painting to match the colour of buildings.	Each		2241.72		
20	providing & fixing 3" dia C.I off-sets of various length including extra painting to match the colour of buildings. (same as item NO:15)	Each		1165.32		
21	Providing & fixing 3" dia C.I. bend of the required degree with access door, rubber, washer 1/8" thick and bolts and nuts and extra painting to match the colour of buildings.	Each		1726.92		
22	Providing & fixing 3" dia C.I. branch of the required degree including extra painting to match the colour of buildings.	Each		1914.12		
23	pxoviang & fixing 3" dia C.I. terminal guard including extra painting to match the colour of building.	Each		1165.32		
24	pxoviang & fixing lead caulked joints to 3" dia C.I. pipes and fittings.	Each		1737.40		

Chapter No. 4
Water Services (Internal)

Note: Internal pipe work means, the work of fixing pipes etc. on the wall in the building and on the roof of the building including testing with Water to a pressure of 200ft amd handling etc.

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
1	Providing G.I. pipes specials and clamps etc. including fixing cutting and fittings complete with and including the cost of breaking through walls and roof making good etc. painting 2 coats after cleaning the pipe etc. with white zinc paint with pigment to match the colour of the building and testing with water to a pressure bead of 200 feet and handling.					
i	1/2 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	275.55		
ii	3/4 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	334.05		
iii	1 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	503.70		
iv	1-1/4 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	639.42		
v	1-1/2 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	731.85		
vi	2 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	977.55		
vii	2-1/2"dia G.I Pipe I/C all fitting Etc.	P.Rft	-	1234.95		
viii	3"dia G.I Pipe I/C all fitting Etc.	P.Rft	-	1515.75		
ix	4"dia G.I Pipe I/C all fitting Etc.	P.Rft	-	1808.25		
x	6"dia G.I Pipe I/C all fitting Etc.	P.Rft	-	2393.25		
1(B)	Add extra for concealed G.I. pipe and fitting i/c cutting the masonry laying of G.I. pipe and making good in cement motor ratio 1:4.	P.Bag	-	2279.94		
2	Providing UPVC. pipes specials and clamps etc. including fixing cutting and fittings complete with and including the cost of breaking through walls and roof making good etc. with pigment to match the colour of the building and testing with water to a pressure bead of 200 feet and handling.					
i	1/2 "dia UPVC Pipe (CPVC SCH-40)	P.Rft	-	159.30		
ii	3/4 "dia UPVC Pipe (CPVC SCH-40)	P.Rft	-	199.83		
iii	1 "dia UPVC Pipe (CPVC SCH-40)	P.Rft	-	272.35		
iv	2 "dia UPVC Pipe (CPVC SCH-40)	P.Rft	-	836.36		
v	4 "dia UPVC Pipe (SDR SERIES)	P.Rft	-	465.53		
vi	6 "dia UPVC Pipe (SDR SERIES)	P.Rft	-	950.38		
3 (a)	P/F Union 1/2" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	528.75		
b)	P/F Union 3/4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	554.49		
c)	P/F Union 1" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	610.08		
d)	P/F Union 4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	31169.64		
e)	P/F Union 6" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	833.04		
4 (a)	P/F Cross 1/2" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	1872.00		
b)	P/F Cross 3/4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	2293.20		
c)	P/F Cross 1" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	2574.00		
d)	P/F Cross 4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	8974.56		
e)	P/F Cross 6" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	21430.66		

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
5 (a)	P/F Elbow 1/2" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	519.48		
b)	P/F Elbow 3/4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	550.37		
c)	P/F Elbow 1" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	586.40		
d)	P/F Elbow 4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	1528.49		
e)	P/F Elbow 6" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	4586.40		
6 (a)	P/F Socket 1/2" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	550.37		
b)	P/F Socket 3/4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	560.66		
c)	P/F Socket 1" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	570.96		
d)	P/F Socket 4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	1703.52		
e)	P/F Socket 6" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	4277.52		
7 (a)	P/F "Y" tee 1/2" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	629.46		
b)	P/F "Y" tee 3/4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	643.50		
c)	P/F "Y" tee 1" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	973.53		
d)	P/F "Y" tee 4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	1100.17		
e)	P/F "Y" tee 6" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	1854.87		
8 (a)	P/F male thread adopter 1/2" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	536.98		
b)	P/F male thread adopter 3/4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	622.44		
c)	P/F male thread adopter 1" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	632.74		
d)	P/F male thread adopter 4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	2979.19		
e)	P/F male thread adopter 6" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	734.76		
9 (a)	P/F female thread adopter 1/2" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	629.46		
b)	P/F female thread adopter 3/4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	657.54		
c)	P/F female thread adopter 1" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	678.60		
d)	P/F female thread adopter 4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	3205.71		
e)	P/F female thread adopter 6" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	769.86		
10 (a)	P/F Tee 1/2" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	485.50		
b)	P/F Tee 3/4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	491.68		
c)	P/F Tee 1" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	512.27		
d)	P/F Tee 4" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	1106.35		
e)	P/F Tee 6" (CPVC SCH-40) Sanitary Tape/Sofaids I/C all Labour .	Each	-	1589.23		

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
11 (a)	P/F Bush 1/2" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	59.16		
b)	P/F Bush 3/4" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	64.30		
c)	P/F Bush 1" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	69.45		
d)	P/F Bush 4" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	93.60		
e)	P/F Bush 6" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	99.45		
12 (a)	P/F Clamp 1/2" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	93.60		
b)	P/F Clamp 3/4" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	99.45		
c)	P/F Clamp 1" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	106.47		
d)	P/F Clamp 4" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	117.00		
e)	P/F Clamp 6" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	122.85		
13 (a)	P/F END cap 1/2" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	522.57		
b)	P/F END cap 3/4" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	541.10		
c)	P/F END cap 1" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	579.20		
d)	P/F END cap 4" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	590.85		
e)	P/F END cap 6" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	602.55		
14 (a)	P/F Concealed stop cock 1/2" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	643.50		
b)	P/F Concealed stop cock 3/4" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	661.05		
c)	P/F Concealed stop cock 1" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	684.45		
d)	P/F Concealed stop cock 4" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	702.00		
e)	P/F Concealed stop cock 6" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	731.25		
15 (a)	P/F Elbow 45 degree 1/2" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	519.48		
b)	P/F Elbow 45 degree 3/4" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	550.37		
c)	P/F Elbow 45 degree 1" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	586.40		
d)	P/F Elbow 45 degree 4" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	614.25		
e)	P/F Elbow 45 degree 6" (CPVC SCH-40) Sanitary Tape/Sofaida I/C all Labour .	Each	-	625.95		

Chapter No. 5
Water Services (External)

Note: External Pipe Work of fixing Pipes, etc, in trenches dug in ground that is open to the sky i/c testing to pressure head of 200 ft and handling

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
1	Providing G.I. pipes specials and clamps etc. including fixing cutting and fittings complete with and including the cost of cutting trench upto 2 2/1 ft depth refilling, watering remaining and disposal of surplus earth with 1 Chain and Painting 2 coat of bitumen 2 pipes and special after cloth soaked in maxphalt composition wraped tightly around pipes and testing to presure head of 200ft.					
i	1/2 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	267.12		
ii	3/4 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	325.62		
iii	1 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	495.27		
iv	1-1/4 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	630.99		
v	1-1/2 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	723.42		
vi	2 "dia G.I Pipe I/C all fitting Etc.	P.Rft	-	969.12		
vii	2-1/2"dia G.I Pipe I/C all fitting Etc.	P.Rft	-	1226.52		
viii	3"dia G.I Pipe I/C all fitting Etc.	P.Rft	-	1507.32		
ix	4"dia G.I Pipe I/C all fitting Etc.	P.Rft	-	1799.82		
x	6"dia G.I Pipe I/C all fitting Etc.	P.Rft	-	2384.82		

CHAPTER: NO 06
C.P BRASS BIB COCK AND STOP COCK

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
1	<u>Supplying & Fixing in Position brass bib cock</u>					
a)	1/2" dia brass Bib cock (light pattern)	Each	-	959.40		
b)	1/2" dia brass Bib cock (standared pattern)	Each	-	1017.90		
c)	3/4" dia brass Bib cock	Each	-	1070.55		
d)	3/4" dia brass Bib cock	Each	-	1105.65		
e)	1" dia brass Bib cock	Each	-	1129.05		
b)	1" dia brass Bib cock	Each	-	1164.15		
2	<u>Supplying & Fixing in Position C.P bib.</u>					
a)	1/2" dia C.p Bib Cock (light pattern)	Each	-	959.40		
b)	1/2" dia C.p Bib Cock (standared pattern)	Each	-	1134.90		
c)	3/4" dia C.p Bib Cock	Each	-	1544.40		
d)	3/4" dia brass Bib cock	Each	-	2246.40		
e)	1" dia brass Bib cock	Each	-	2480.40		
b)	1" dia brass Bib cock	Each	-	2714.40		
3	<u>Providing & Fixing C.P Shower brass shower rose with or 3/3" inlet (with detachable lid)</u>					
a)	4" dia (Standard quality)	Each	-	1333.80		
b)	4" dia (superior quality)	Each	-	1392.30		
c)	6" dia (Standard quality)	Each	-	1509.30		
d)	6" dia (Superior quality)	Each	-	2035.80		
	<u>GUN METAL FULL WAY VALUE</u>					
4	<u>providing and fixing full way gun metal values</u>					
	<u>with wheels ,threaded or flanged end with rubber washer</u>					
A	<u>Light Patterns</u>					
a	1/ 2" dia Light pattren	Each	-	1380.60		
b	3/4" dia light pattren	Each	-	1614.60		
c	1" dia (light Pattren)	Each	-	1965.60		
d	1-1/4" dia (Light Pattren)	Each	-	2024.10		
e	1-1/2 " (light Pattren)	Each	-	2141.10		
f	2" dia (Light Pattren)	Each	-	2199.60		
g	2-1/2 " (light Pattren)	Each	-	2316.60		
h	3" dia (Light Pattren)	Each	-	2375.10		
i	4 " dia (light Pattren)	Each	-	2550.60		
B	<u>Standard Pattren</u>					
a	1/2 " dia (Standard Pattren)	Each	-	1146.60		
b	3/4 " dia (Standard Pattren)	Each	-	1322.10		
c	1" dia (Standard Pattren)	Each	-	1439.10		
d	1-1/4" dia (Standard Pattren)	Each	-	1556.10		
e	1-1/2" dia (Standard Pattren)	Each	-	1614.60		
f	2" dia (Standard Pattren)	Each	-	1965.60		
g	2-1/2" dia (Standard Pattren)	Each	-	2316.60		
h	3" dia (Standard Pattren)	Each	-	2375.10		
i	5" dia (Standard Pattren)	Each	-	2433.60		
5	<u>Providing and Fixing Handle Value</u>					
a	1/2" dia	Each	-	1614.60		
b	3/4" dia	Each	-	1848.60		
c	1" dia	Each	-	1907.10		
d	1-1/4" dia	Each	-	2082.60		
e	1-1/2" dia	Each	-	2199.60		
d	2" dia	Each	-	2492.10		

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
6	<u>Providing and Fixing ball valves with Plastic Ball & Road</u>					
a	1/2" dia	Each	-	1029.60		
b	3/4" dia	Each	-	1146.60		
c	1" dia	Each	-	1322.10		
d	1-1/4" dia	Each	-	1380.60		
e	1-1/2" dia	Each	-	1439.10		
d	2" dia	Each	-	1614.60		
7	<u>Providing and Fixing brass Ferrule i/c tapping 3" dia,C.I. main.</u>					
a	1/2" dia	Each	-	450.45		
b	3/4" dia	Each	-	561.60		
c	1" dia	Each	-	795.60		
d	1-1/4" dia	Each	-	854.10		
e	1-1/2" dia	Each	-	912.60		
d	2" dia	Each	-	1006.20		
8	<u>Making The Connection With the Existing G.I. Pipe upto 2" dia</u>					
	In G.I. pipe upto 2"	Each	1890.14	2592.14		
9	<u>Making the connection with the existing G.I. Pipe size larger than 2" and upto 6" dia .</u>					
	In G.I. Pipe 2" to 6" dia	Each	1890.14	2620.22		
10	<u>Making the Connection with Public health mains for the house hold fitting with M.S. Clamps ,Socket screw etc complete</u>					
a	3" Dia	Each	1890.14	2568.74		
b	4" Dia	Each	1890.14	2545.34		
c	5" Dia	Each	1890.14	2802.74		
11	<u>Concealed C.P.fitting of superior quality for tiles bathroom.</u>					
A	<u>S/fixing concealed stop cock of suprior quality with C.P.head 1/2" dia</u>					
	1/2" dia	Each	-	1614.60		
B	<u>S/fixing concealed stop cock of suprior best quality with C.P.head 1/2" dia</u>					
	1/2" dia	Each	-	1848.60		
12-a	<u>S/fixing concealed Tee-stop cock of suprior quality with C.P. head ^{1/2"} dia</u>					
	1/2" dia	Each	-	1614.60		
12-b	<u>S/fixing concealed Tee-stop cock of superior quality with Crystal head ^{1/2"} dia</u>					
	1/2" dia	Each	-	1673.10		
13-a	<u>Supplying & fixing long Bib -cock of superior quality with C.Phead ^{1/2"} dia</u>					
	1/2" dia	Each	-	2316.60		
13-b	<u>Supplying & fixing long Bib -cock of Crystal head with C.Phead ^{1/2"} dia</u>					
	1/2" dia	Each	-	2784.60		
14-a	<u>Supplying & fixing wash basin mixture of superior quality with C.P. head ^{1/2"} dia</u>					
	1/2" dia	Each	-	3135.60		

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
14-b	<u>Supplying & fixing wash basin mixture of superior quality with C.P. Crystal head ^{1/2"} dia</u>					
	1/2" dia	Each	-	4890.60		
15-a	<u>Supplying & fixing jet shower with rod of superior quality with C.P. head ^{1/2"} dia</u>					
	1/2" dia	Each	-	3486.60		
16-a	<u>Supplying & fixing swan type pillar cock of superior quality with Single C.P. head ^{1/2"} dia</u>					
	1/2" dia	Each	-	1029.60		
16-b	<u>With Crystal Head</u>					
	1/2" dia	Each	-	1848.60		
17	<u>Supplying & fixing Sink mixture cock of superior quality with C.P. head etc. complete</u>	Each	-	2550.60		
18	<u>Supplying & fixing C.P Bath tub mixture cock of superior quality with head of approved quality</u>					
a	With C.P.head	Each	-	4305.60		
b	WithCrystal head	Each	-	4890.60		
19-A	<u>Supplying & fixing C.P muslim shower with double bib cock and ring pipe etc. complete</u>	Each	-	5475.60		
19-b	<u>WithCrystal head</u>	Each	-	5475.60		
20	<u>Supplying & fixing Telephone shower with ring pipe etc. complete</u>	Each	-	3135.60		
21	<u>Supplying & fixing surgical pillers cock with Elbow action C.P red etc. complete</u>	Each	-	1380.60		
22	<u>Supplying & fixing bathnroom accessories set (7 pieces) i/c towel rod ,Brush holder ,soap tray ,shelf of approved quality and design etc. complete</u>	Each	-	9640.80		
23	<u>Supplying & fixing bath room accessories set (7 pieces) i/c towel rod ,Brush holder ,soap tray ,shelf of approved design including cost of screw ,nuts etc. complete (Master Brand)</u>	Each	-	14320.80		

CHAPTER NO. 7

CHAMBERS FOR STOP COCKS AND HOUSE METERS

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7

CAST IN SITU

1	Providing chambers 9"x6" (inside dimension) x24" deep for stop cocks and valves etc. with 6" thick C.C 1:2:4 cast in situ walls, 6" thick C.C. 1:3:6 in foundation, " thick cement plaster 1:3 all inside wall surfaces and to top 1" thick C.C. 1:2:4 flooring complete with hinges cast iron cover and frame 9"x6" (inside) clear opening (Wt ½ qr) etc. fixed in cement concrete 1:2:4 i/c. curing excavation, backfilling and disposal of earth etc.	Each	-	8532.66		
2	Providing chambers 15"x19" (inside dimension) x24" deep for house meters with 6" thick C.C. 1:2:4 blocks set in 1:6 cement mortar 6" thick C.C. 1:4:8 in foundation, " thick cement plaster 1:3 to all inside wall surfaces and to top 1" thick C.C. 1:2:4 fl.	Each	-	9051.80		
3	Providing chambers 9"x6" (inside dimension) x24" deep for stop cocks and valves etc. with 4-1/2"thick burnt brick masonry wall in 1:6 cement mortar 6" thick C.C 1:4:8 in foundation, ½" thick cement plaster 1:3 C.M. to all inside wall surfaces and to top 1" thick C.C. 1:2:4 flooring complete with hinges cast iron hinged cover and frame 9"x6" (inside) clear opening (Wt 2 qr) etc. fixed in cement concrete 1:2:4 i/c. curing excavation, backfilling and disposal of earth etc. complete.	Each	-	8258.97		
4	Providing chambers 15"x9"x24" deep for house meters with 4-1/2 thick burnt brick masonry walls in 1:6 C.M 6" thick C.C. 1:2:4 in foundation, " thick cement plaster 1:3 C.M. to all inside wall surfaces and to top 1" thick C.C.	Each	-	7388.71		

CHAPTER NO. 8
MILD STEEL TANKS

Note:

- i) The rate are based on the current Market, rate of M.S.G I sheet, angle and flat iron and welding if not provided in the Schedule of Rates of Matterial.
- ii) The mosquito proof C.I cover and frames for the Tanks shall be 14" x 14" inside of wieght = 2qrs bolted down securely near the inlet connection.

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7

MILD STEEL TANKS.

- 1 Providing & fixing/erecting in position steel tank of 3/16" thick M.S. sheets complete with inlet and outlet holes and over flow pipe of required size 6" free board with cast iron mosquito proof cover and frame 1"x14" size inside including internal fitting.complete in all respect.
- | | | |
|--------|---|----------|
| Gallon | - | 88729.99 |
|--------|---|----------|

Fibre Glass Tanks.

- 1 Supplying & fixing Fiber glass tank of approved quality and design and wall thickness as specified including cost of nuts, bolts and fixing in plat form of cement concrete 1:3:6 and making connection for inlet, outlet and over flow pipes etc. complete.

(A)	<u>250 gallons tank with wall thickness 3.5mm.</u>	Each	-	37698.31
	<u>Material</u>			
(B)	<u>350 gallons tank with wall thickness 4.0mm.</u>	Each	-	49159.80
(C)	<u>500 gallons tank with wall thickness 4.5mm.</u>	Each	-	69982.85
(D)	<u>1000 gallons tank with wall thickness 5 mm.</u>	Each	-	157807.46
(E)	<u>1500 gallons tank with wall thickness 5.5mm.</u>	Each	-	220992.14

CHAPTER NO. 9

CAST IRON WATER SUPPLY PIPES AND SPECIALS

- 1 All C.I pipes & specials shall conform to British standard specification class "B" with plain socket & spigot bands.
- a) Specidls shall conform to B.S.S No 78/1938.
- b) Method of measurement - Measurments in the first instance will be taken over all and paid pipe then specials etc, will be conuted and paid as per rates for "Providing & specials fit things, and joint etc.
- c) The rates are including of water test to a Preauree head of 200 feet and carriage and handling within site of work

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
1	Providing & laying including cutting and fitting C.I. pipes in trenches, and testing with water to a pressure head of 200 ft.					
(a)	3" dia	P.Rft	63.00	498.24		
(b)	4" dia	P.Rft	63.00	568.44		
2	Providing & fixing C.I. standard 90 degrees bends in trenches, and testing with water to a pressure head of 200 ft.					
(a)	3" dia C.I. bend 90 degree.	Each	-	1418.04		
(b)	4" dia C.I. bend 90 degree.	Each	-	1460.16		
3	Providing & fixing C.I. standard 45 degrees below 45 degree including testing with water to pressure head of 200 ft.					
(a)	3" dia C.I. bend 45 degree.	Each	-	1467.18		
(b)	4" dia C.I. bend 45 degree.	Each	-	1516.32		
4	Providing & fixing C.I. standard tees in trenches including testing with water to pressure head of 200 ft.					
(a)	3" dia C.I. tee 90 degree.	Each	-	1698.84		
(b)	4" dia C.I. tee 90 degree.	Each	-	1839.24		
5	Providing & fixing C.I. standard crosses in tresses trenches including testing with water to pressure head of 200 ft.					
(a)	Cost of iron cross 3" dia.	Each	-	10796.76		
(b)	Cost of iron cross 4" dia.	Each	-	19640.79		
6	Providing & fixing Cast iron standard tapers in trench including testing with water to pressure head of 200 ft.					
(a)	Cost of iron taper 4" x 3" dia.	Each	-	2386.80		
(b)	Cost of iron taper 6" to 4" x 3" dia.	Each	-	3510.00		
7	Providing & fixing C.I. standard collars in trenches including testing with water to pressure head of 200 ft.					
(a)	C.I. standard collars 3" dia.	Each	-	2667.60		
(b)	C.I. standard collars 4" dia.	Each	-	3510.00		

CHAPTER NO. 10**I - GULLY TRAPS**

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
1	Providing & fixing 6"x4" C.C. gully trap with 4" outlet complete with 4" thick 1:2:4 for bed & 1/2" thick cement plaster (1:3) to the karb, C.I. grating 6"x6" & C.I. cover and frame 12"x12" (inside etc. complete).					
a-i	C.C. gully trap 6"x6"x4" C.I Cover and Frame	Each	-	3037.32		
a-ii	C.C. gully trap with R.C.C. Cover.	Each	-	3037.32		
b-i	Earthen ware Glazed gully trap 6"x6"x4"	Each	-	3276.00		
b-ii	Earthenware gully trap with R.C.C cover gully trap with R.C.C. Cover.	Each	-	3276.00		
C-i	C.C. gully trap 6"x6"x4" C.I Cover and Frame	Each	-	3037.32		
C-ii	C.I. gully trap with R.C.C cover.	Each	-	3276.00		

R.C.C PIPE CLASS 'B'

1	Providing R.C.C pipe with collars class 'B' (digging the trenches to required depth & fixing in position including cutting, fitting & jointing with asphalt composition & cement mortar 1:1 and testing with water pressure to a head of 4 ft. above the top.					
(A)	3" dia R.C.C. pipe class 'B'.	P.Rft	-	398.32		
(B)	4" dia R.C.C. pipe class 'B'.	P.Rft	-	714.85		
(C)	6" dia R.C.C. pipe class 'B'.	P.Rft	-	823.31		
(D)	9" dia R.C.C. pipe class 'B'.	P.Rft	-	1076.38		
(E)	12" dia R.C.C. pipe class 'B'.	P.Rft	-	1568.06		
(F)	15" dia R.C.C. pipe class 'B'.	P.Rft	-	1763.28		
(G)	18" dia R.C.C. pipe class 'B'.	P.Rft	-	2103.12		

III-F.C PRESSURE PIPE.

3	Providing F.C pressure pipe with collar (Dadex & equivalent) i/c. digging the trench to required depth and fixing in position & jointing with rubber rings i/c testing to water pressure head of 400 feet.					
(A)	3" dia F.C. pressure pipe	P.Rft	-	433.77		
(B)	4" dia F.C. pressure pipe	P.Rft	-	532.43		
(C)	6" dia F.C. pressure pipe	P.Rft	-	773.93		

CHAPTER NO:11
PART (B) LABOUR RATE
(SANITARY FITTINGS)

Note:

- a) Sanitary fittings, their accessories pipes and specials and brackets will be supplied by government.
- b) Labour rates include cost of skilled & unskilled labour tools, plants, jointing materials such as cement red and white lead hemp: etc. making requisite number of holes in walls plinth and floor and making in 12: 4 cement concrete cartage of sanitary fitting etc.

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
1	Fixing & Squatting typr W.C. pan set consisting of flushing cistern, flush pipe & a trap including cutting and making good the requisite number of holes in walls, plinth and floors and making in 1:2:4 C.C.	Each	3060.14	-		
2	Fixing European type W.C. pan set consisting of flushing cistern, flush pipe including cutting and making good the requisite number of holes in walls, plinth and floors and making in 1:2:4 C.C.	Each	2772.08	-		
3	Fixing a flat back lipped front urinal basin set consisting of flushing cistern, flush pipe waste pipe including cutting and making good the requisite number of holes in walls, plinth and floors and making good in 1:2:4 C.C.	Each	2700.07	-		
4	Fixing single urinal set consisting of flushing cistern, flush pipe trap including cutting and making good the requisite number of holes in walls, plinth and floors and making good in 1:2:4 C.C.	Each	2815.29	-		
5	Fixing lavatory basin of sizes with traps and brackets etc.complete including labour of connection up waste and water pipe & including cutting and making good the requisite number of holes in walls, plinth and floors and making in 1:2:4 C.C.	Each	2800.89	-		
6	Fixing bath size tubs of sizes with traps, waste & overflow pipe, chain including cutting and making good the requisite number of holes in walls, plinth and floors and making good in 1:2:4 C.C.	Each	3420.20	-		
7	Fixing sink of sizes with bracks, brass, waste trap chain and plug including cutting and connection up waste and water pipe & making good the requisite number of holes in walls, plinth and floors for pipe connection and making in 1:2:4 C.C.	Each	2815.29	-		
8	Fixing draining board of sizes with bracks etc. complete.	Each	1170.00	-		
9	Fixing floor traps of sizes with grating including cutting and making good the requisite number of holes in walls, plinth and floors and making good in 1:2:4 C.C.	Each	1170.00	-		

CHAPTER NO:12
LABOUR RATES (C.I SOIL & VENT PIPES)

Note:

- a) Pipes and special will be supplied by the Government.
- b) Labour rates include cost of skilled & unskilled labour tools, plants, scaffolding painting & cartedge of pipe and special etc.

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
1	Fixing including, cutting fitting & extra panting 4" C.I soil waste and vent pipes.	Each	210.60	-		
2	Fixing special of 4" dia C.I. soil waste and vent pipes with access doors, rubber washers and extra painting to match the colour of building	Each	187.20	-		
3	Fixing plain specials of 4" dia C.I. soil waste and vent pipes including extra painting to match the colour of building	Each	163.80	-		
4	Fixing including, cutting fitting & extra panting 3" dia C.I soil waste and vent pipes.	Each	140.40	-		
5	Fixing special of 3" dia C.I. soil waste and vent pipes with access doors, rubber washers and extra painting to match the colour of building.	Each	117.00	-		
6	Fixing plain specials (plain) of 3" dia C.I. soil waste and vent pipes including extra painting to match the colour of building.	Each	210.60	-		
7	Fixing including, cutting fitting & extra panting 2" dia C.I soil waste and vent pipes.	Each	187.20	-		
8	Fixing special of 2" dia C.I. soil waste and vent pipes with access doors, rubber washers and extra painting to match the colour of building.	Each	14040.00	-		
9	Fixing plain specials (plain) of 2" dia C.I. soil waste and vent pipes including extra painting to match the colour of building.	Each	93.60	-		

CHAPTER NO:13
LABOUR RATES FOR WATER SERVICES (INTERNAL)

Note:

- a) Only pipes required for work will be supplied by the Government.
- b) Labour rates include cost of special, clamps, skilled & unskilled labour tools and plants, jointing material such as cement which lead humpm cartedge of pipe etc.
- c) Internal work means the work of fixing the pipes etc. on exposed walls, roofs etc, of the structure.

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7

- 1 Fixing including cutting & fitting G.I. pipes specials and clamps etc.including the cost of special, clamps and breaking through walls and roof and making good etc. painting 2 coats after cleaning the pipe etc. with pigment to match the colour of the building and testing with water to a pressure head of 200 feet.

A	1/2" dia G.I. pipe	P.Rft	13.58	25.74		
B	3/4" dia G.I. pipe	P.Rft	16.30	28.08		
C	1" dia G.I. pipe	P.Rft	20.37	31.59		
D	1-1/4" dia G.I. pipe	P.Rft	24.45	35.10		
E	1-1/2" dia G.I. pipe	P.Rft	24.45	35.10		
F	2" dia G.I. pipe	P.Rft	25.81	36.27		
G	2-1/2" dia G.I. pipe	P.Rft	27.16	37.44		
H	3" dia G.I. pipe	P.Rft	29.88	39.78		
I	4" dia G.I. pipe	P.Rft	27.16	37.44		
J	6" dia G.I. pipe	P.Rft	27.16	37.44		

CHAPTER NO.14
LABOUR RATE FOR WATER SERVICES (EXTERNAL)

Note:

- a) Only pipes required for work will be supplied by the Government.
- b) Labour rates include cost of special, clamps, skilled & unskilled labour tools and plants, jointing material such as white lead, hemp, paint, oil and hassain cloth socked in maxphalt composition and also cartedge of pipe etc.
- c) External works means the work of laying and fixing the pipes etc. in trenches dug in ground and under floor bed etc.

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7

- 1 Fixing including cutting & Fitting G.I pipes
specials including the cost of specials, cutting
trench up to 2-1/2 feet deep refilling, watering,
ramming and disposal of surplus earth within one
chain, painting 2 coats with bitumen paint to pipes
& specials after cleaning and hassain cloth soaked
in maxphalt composition wrapped tightly round
pipes and testing to a pressure head of 200 ft.

A	1/2" dia G.I. pipe	P.Rft	11.70	25.74
B	3/4" dia G.I. pipe	P.Rft	14.04	28.08
C	1" dia G.I. pipe	P.Rft	17.55	31.59
D	1-1/4" dia G.I. pipe	P.Rft	21.06	35.10
E	1-1/2" dia G.I. pipe	P.Rft	21.06	35.10
F	2" dia G.I. pipe	P.Rft	22.23	36.27
G	2-1/2" dia G.I. pipe	P.Rft	23.40	37.44
H	3" dia G.I. pipe	P.Rft	25.74	39.78
I	4" dia G.I. pipe	P.Rft	23.40	37.44
J	6" dia G.I. pipe	P.Rft	23.40	37.44

CHAPTER NO.15
DESLUDGING OF SEWERAGE LINE

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
	Cleaning inside Sewerage Lines completely restoring original silt free space/diameter of pipe lines by labour and equipment (Mechanically / electrically driven). Including accessories like pulley's steel rope, buckets and draggers sizing from 6" to 18" dia. Their "to and fro" pulling action (No of passes shall be as many as required) would be taken in two phases(First phase entire length from down stream to up stream) bringing down peak hours sewage to flow inside pipe line (as free flow) and in second phase from up stream to down stream of entire length ensuring no silt is observed in buckets (6" dia to 18"dia) except only sweage water and finally passing a steel ball of dia 12" lesser than the diameter of pipe but not exceeding 48" dia ball even for larger dia pipe to ensure perfect cleaning. The job includes all the hire/ cost of equipment and accessories of above winching machine/ devices along with engines with winching drum set having steel rope pully mounted over it, steel bucket from 6" to 18" dia hooks and other protection like Safety barriers, Traffic signs, Traffic cones ensuring no damage to pipe along with ensuring safety to labour and other public property lives and removal of silts/solid during desilting and clearance of site etc, complete as per full satisfaction of Site Engineer.					Usage of submersible pumps would only be allowed in case of emergency with the prior approval of SE or equivalent to BS-19 Grade Technical Officer of the concerned department.
a	12"	P.ft		225.79		
b	15"	P.ft		270.94		
c	18"	P.ft		361.26		
d	21"	P.ft		451.57		
e	24"	P.ft		587.04		
f	27"	P.ft		632.20		
g	30"	P.ft		722.51		
h	33"	P.ft		767.67		
i	36"	P.ft		812.83		
j	42"	P.ft		903.14		
k	48"	P.ft		993.46		
l	54"	P.ft		1083.77		
m	60"	P.ft		1174.08		
n	66"	P.ft		1264.40		
o	72"	P.ft		1354.71		
p	84"	P.ft		1445.03		

CHAPTER 16
R.C.C MANHOLE COVER / R.C.C RING SLAB

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7
1	Manufacturing & Supplying of R.C.C manhole cover cast in 1:2:4 cement concrete ratio 3" inch deep at center reinforced with 1/2" dia tor steel bars with 4" c/c welded to a 3/16" thick 2 inch wide M.S Plate and two hooks of 3/8" inch dia tor bars including compacting, curing and transportation within 10 miles.					
a	21" inch dia	Each	-	3238.79		
b	24" inch dia	Each	-	3730.24		
c	30" inch dia	Each	-	6556.10		
2	Manufacturing and suppling of R.C.C ring slab of 21" inch inside and 36" dia outside 7.5" inch width and 6" inch thick i/c 3/8" dia tor steel bar two concentric rings with 3/8" inch dia 08 Nos cross linked bars welded and two sunk type hooks casted in a 1:1-1/2:3 concrete with embedded 15kg C.I frame in perfect position including transportation charges for an average lead of 20Km per trip from casting yard to town office. (A minimum of 25 slabs per trip will be transported)	Each	-	7504.67		
3	Making connections with the existing Manholes including the cost of cutting holes in walls making them good in cement concrete 1:2:4 and making the required channel etc complete.	Each	-	631.80		
4	Shifting to the site and fixing of 36" inch dia Ring Slab in perfect position on damaged manholes including cutting of damaged portion of manhole in proper shape and laying of cement mortar of 2" inch thickness and disposal of debris).	Each	-	1787.76		

CHAPTER NO.17
PVC GEO-MEMBRANE

S.NO	Description	Unit	Rate (Rs)		Specification	Remarks.
			Labour	Composite		
1	2	3	4	5	6	7

1 PROVIDING AND INSTALLATION OF PVC GEO-MEMBRANE

a	0.25 MM THICK MEMBRANE	Per Sft	-	173.16		
b	0.50 MM THICK MEMBRANE	Per Sft	-	196.56		
c	0.75 MM THICK MEMBRANE	Per Sft	-	231.66		

GOVERNMENT OF SINDH



SCHEDULE OF RATES

FOR

PUBLIC HIGHWAYS WORKS

FINISHED ITEMS

VOLUME-III, PART IV

SIXTH EDITION 2024

PUBLICATION No. 66

INTRODUCTION

1. The Standing Rates Committee Sindh introduces, the Schedule of Rates for Highways works finished items, Volume-III Part VI-2024. As it is based in the Schedule of Rates of materials and wages issued by the Standing Rates Committee, it is subject to periodical re-revision.
2. All the estimates of Highway Works shall be prepared on the basis of the rates provided in this schedule. To cater for any variation further action be taken on the basis of departmental codes, and instructions issued by, the Government from time to time.
3. The adhoc arrangement of allowing factor of escalation have already been stopped by the Committee.
4. The Delegation of Power 1962 as corrected from time to time and the instructions issued by the Finance Department in this connection will hold good.
5. Keeping in view the difficulties being confronted with by the field Engineer in operating the Schedule of Rates they can follow certain Department Standing instructions brief extents of these instructions are put of guidance of all concerned
 - i. Special allowances, for hardness, wetness, slush: - Specific instructions regarding Powers of sanction for such allowances are Administrative Department and Statutory bodies in order to facilitate smooth execution of works.
 - ii. Deduction for shrinkage, from the bank measurements: - To unify the various formula now being allowed in different parts of the Province and standardize instruction on the subject, the following allowances should be provided for:-
 - a) Deduction for shrinkage from the bank measurements when the earth work is done by the manual labour.(Men & Donkey & Drag-lines), 10%.
 - b) Deduction for settlement from the bank measurements when the earth works is done by machines, Tractor and Scrapers 5%.
 - c) Before the work is let out to be done by tractors, scrapers a deduction of 5% will be mentioned and mutually agreed to.
 - iii. Sanction of Non-Schedule items: - A list of such items as are considered to be of general use should sent to the Standing Rates Committee Sindh by the sanctioning authorities.
 - iv. Insufficient rate of certain Schedule of items: -The Schedule of Rates may be found inadequate to carry out certain times of work. In such case, the only competent body to review the position in Standing Rates Committee Sindh. All such cases should, therefore be referred to the committee.
 - v. Cost of escalation of monopolized item like Bitumen will be allowable without referring to SRC by obtaining the rates from National Refinery.
 - vi. If the machinery is supplied by the Department its rental charges will be recovered from the contractor agency.
 - vii. For specification mentioned in Col. 9 of this Schedule, Ex-Director General Highways West Pakistan instruction Book No.1 Vol. II may be referred.
 - viii. All estimates shall invariable be framed on the basis of this Schedule. If any Department wants to get included in the Schedule any new item to facilitate the work of field Engineers, they can do so by referring the matter to Secretary Standing Rates Committee Sindh

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SCHEDULE OF RATES (GENERAL)
FOR HIGHWAYS WORKS (FOR FINISHED ITEMS)
VOL-III, PART-IV SIXTH EDITION-2024

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Schedule of Rate for Highways Works-2024

Finished Items

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10

1-EARTH WORK

(Excavation and Embankment)

1	Clearing and grubbing the site by cutting, uprooting and removing all rubbish and shrubs including disposal to (outside limits) designated places.	% Sft	288.17	.....	Sq.m	31.00	.....	2.1	
2	Compaction of Natural Ground upto a depth of 20cm (8"inch) below the natural ground level compacted upto 90% density modified AASHTO.	% Sft	468.44	.....	Sq.m	50.40	.....	104 NHA Specification	
3	Preparing improved Sub-Grade consisting of 30 cm (12" inch thick) under Sub-Base with an approved blended materials of PI not more than 6%, uniformly mixed, compacted to 95% of max: dry density as per Modified AASHTO shall have CBR value more than 8% (Rate i/c cost of A3 material for belending i/c its carriage upto 3.0 miles.	% Cft	27244.04	.....	Cu.m	961.67	.....	110 NHA Specification	
4	Earth work excavation of road side nalties including forming its banks or putting the same on embankment as directed clod breaking dressing etc, complete (throw work) (In ordinary soil).	%0 Cft	6733.27	.....	Cu-m	237.67	.....	104 NHA Specification	
5	Earth work embamkment from borrow pits including laying in 6" layers, clod breaking ramming dressing complete, lead upto 100 ft: lift upto 5 ft: (In ordinary soil).	%0 Cft	6131.23	.....	Cu-m	216.42	.....	_do_	
6	Earth work for road embankment by bulldozer including ploughing,mixing, clod breaking dressing and compacting with optimum moisture content. Lead upto 100 ft: and lift upto 5 ft: in all types of soil except rock.								
<u>(I) If earth work is done by department.</u>									
(a)	For 95-100% modified AASHO density.	%0 Cft	11633.56	.....	Cu-m	410.91	.....	_do_	
(b)	For 90% modified AASHO density.	%0 Cft	10026.72	.....	Cu-m	354.15	.....	_do_	
(c)	For 85% modified AASHO density.	%0 Cft	6474.84	.....	Cu-m	228.70	.....	_do_	
<u>(II) If earth work is done by other then departmental agency.</u>									
(a)	For 95-100% modified AASHO density.	%0 Cft	16524.87	.....	Cu-m	583.67	.....	_do_	
(b)	For 90% modified AASHO density.	%0 Cft	13677.72	.....	Cu-m	483.11	.....	_do_	

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
	(c) For 85% modified AASHO density.	%0 Cft	9236.42	.....	Cu-m	326.24	.....	_do_	
7	Earth work compaction by Sheep Foot Roller and Power Roller with optimum moisture content.								
	(a) For 95-100% modified AASHO density.	%0 Cft	10487.51	.....	Cu-m	370.43	.....	_do_	
	(b) For 90% modified AASHO density.	%0 Cft	6991.67	.....	Cu-m	246.95	.....	_do_	
	(c) For 85% modified AASHO density.	%0 Cft	2681.79	.....	Cu-m	94.72	.....	_do_	
8	Extra for every 50 ft additional lead or part thereof.								
	(a) For earth work in soft, ordinary or very hard soil.	%0 Cft	215.06	.....	Cu-m	7.60	.....	_do_	
	(b) For earth work in gravel, shingle or rock.	%0 Cft	270.87	.....	Cu-m	9.57	.....	_do_	
	<u>2 - SUB - BASE.</u>								
9	Preparing sub grade including earth excavation or filling to an average depth of 9" dressing to camber and consolidation with power Roller.	% Sft	1639.71	.....	Sq-m	176.41	.....	104 NHA Specification	
10	Excavation in existing berm for widening the road, including Preparation of sub-grade after watering, rolling with Power Roller, dressing the excavated stuff etc: complete.	% Sft	1639.70	.....	Sq-m	176.41	.....	_do_	
11	(a) Preparing sub- base course by supplying and spread-ing stone metal 1-1/2"-2" guage of approved quality from approved quarry in required thickness to proper camber and grade including hand packing filling voids with 20 cft: of pit / canal sand having plasticity index not more than 6% of suitable quality, watering and compacting to achieve 98-100% density as per modified AASHO specifications (Rate includes all cost of materials T&P and carriage upto 3 chains).	% Cft	5054.65	14630.16	Cu-m	1786.09	5169.67	206 NHA Specification	
	(b) Preparing sub-base by supplying and spreading stone metal 1-1/2"-2" guage of approved quality from approve quarry in required thickness to proper camber and grade including hand packing mixed with shingle pit run gabel fines having P.I of not more than 6% in the ratio 2-3 including	% Cft	4903.01	11180.22	Cu-m	1732.51	3950.61	_do_	
						212			

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
	than 9/16 in the 100-200 including watering & compacting to achieve 98-100% density as per modified AASHO specifications. (Rate includes all cost of materials T&P and carriage upto 3 chains). (c) Preparing sub-base by supplying and spreading stone metal 1-1/2" -2" gauge of approved quality from approved quarry in required thickness to Proper camber and grade including hand packing filling voids with 10 cft: screening & nonplastic quarry fines of approved quality and gauge from approved source, watering & compacting to achieve 98-100% density as per modified AASHO specifications. (Rate includes all cost of materials T&P and carriage upto 3 chains).	% Cft	5054.65	14560.62	Cu-m	1786.09	5145.10	206 NHA Specification	
	(d) Preparing Sub-Base by supplying and spreading well graded pit or bed run gravel having a liquid limit not greater than 25 and plasticity index not greater than 6 in proper camber and grade including watering rolling and compacting in layers, thickness of each compacted layer not exceeding 6" compacted upto 98-100% density as per modified AASHO density (Rate i/c all cost of materials T&P and carriage upto 3 chains).	% Cft	677.05	9706.88	Cu-m	239.24 36.60	3429.99	206 NHA Specification	
12	Laying brick on end edging including supplying 9" * 4 - 1/2" * 3" first class bricks, excavation for laying edging with small side parallel to the road (Rate includes lead upto 3-chains).	% Rft	1632.58	8652.58	Metre	57.69	283.97		
<u>3 - BASE COURSE</u>									
13	Preparing base course i/c supplying and spreading stone metal of approved quality properly graded to maximum size of 1-1/2" in required thickness to Proper camber and grade including supplying and spreading 15 Cft: screenings and non plastic quarry fines, filling depressions with stone metal after initial rolling including watering and compaction the same so as to achieve 100% density as per modified AASHO specifications. (Rate includes providing and using templates, camber plates, screens, forms as directed .(Rate includes all cost of materials T&P and carriage upto 3 chins).	% Cft	5054.65	15676.75	Cu-m	1786.09	5539.49	206 NHA Specification	
(A)									

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
13	Providing and laying Aggregate base course in proper grade and camber having CBR 80% as per AASHTO standard specifications i/c spreading and compacting by approved mechanical menas (Motor grader, Vibratory roller and Smooth wheel roller etc) watering to maintain the moisture content the compaction of each layer shall 100 percent to the max dry density (Rate i/c all cost of materials T&P and carriage upto 3 chains).	% Cft	84.63	13849.22	Cu-m	29.90	4893.72	202 NHA Specification	
(B)									
<u>4-SURFACE TREATMENT.</u>									
14	Providing surface dressing Ist coat on new or existing surface with 50 lbs bitumen and 6 Cft: of bajri of required size including cleaning the road surface rolling etc.(Rate includes all cost of materials T&P and carriage upto 3 chains).(HESI							300 NHA Specification (Surface Courses and Pavement	
(a)	Using Much Bajri.	% Sft	1065.38	6392.46	Sq-m	114.62	687.73		
(b)	Using Crushed Bajri.	% Sft	1065.38	6179.45	Sq-m	114.62	664.81	_do_	
(c)	Using Jharo Bajri.	% Sft	1065.38	6122.15	Sq-m	114.62	658.65	_do_	
15	Providing surface dressing Ist coat on new or existing surface with 40 lbs bitumen and 5.5 Cft: of bajri of required size including cleaning the road surface rolling etc, complete. (Rate includes all cost of materials T&P and carriage upto 3 chains).							300 NHA Specification (Surface Courses and Pavement	
(A)									
(a)	Using Much Bajri.	% Sft	1065.38	5427.67	Sq-m	114.62	583.93		
(b)	Using Crushed Bajri.	% Sft	1065.38	5226.70	Sq-m	114.62	562.31	_do_	
(c)	Using Jharo Bajri.	% Sft	1065.38	5170.36	Sq-m	114.62	556.25	_do_	
15	Providing surface dressing Ist coat on new or existing surface with 40 lbs bitumen and 5.0 Cft: of bajri of required size including cleaning the road surface rolling etc, complete.(Rate includes all cost of materials T&P and carriage upto 3 chains).								
(B)									
(a)	Using Much Bajri.	% Sft	1065.38	5339.46	Sq-m	114.62	574.44	_do_	
(b)	Using Crushed Bajri.	% Sft	1065.38	5162.15	Sq-m	114.62	555.37	_do_	
(c)	Using Jharo Bajri.	% Sft	1065.38	5114.20	Sq-m	114.62	550.21	_do_	
16	Providing surface dressing Ist coat on new or existing surface with 30 lbs bitumen and 4.0 Cft: of bajri of required size including cleaning the road surface rolling etc, complete. (Rate includes all cost of								

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
	materials T&P and carriage upto 3 chains).								
	(a) Using Much Bajri.	% Sft	1065.38	4286.46	Sq-m	114.62	461.16	_do_	
	(b) Using Crushed Bajri.	% Sft	1065.38	4144.46	Sq-m	114.62	445.88	_do_	
	(c) Using Jharo Bajri.	% Sft	1065.38	4106.26	Sq-m	114.62	441.77	_do_	
17	Providing surface dressing 1st coat on new or existing surface with 25 lbs bitumen and 2.75 Cft: of bajri of required size including cleaning the road surface rolling etc, complete. (Rate includes all cost of materials T&P and carriage upto 3 chains).								
(A)									
	(a) Using Much Bajri.	% Sft	718.27	3356.76	Sq-m	77.28	361.14	300 NHA Specification (Surface Courses and Pavement	
	(b) Using Crushed Bajri.	% Sft	718.27	3258.19	Sq-m	77.28	350.53	_do_	
	(c) Using Jharo Bajri.	% Sft	718.27	3258.19	Sq-m	77.28	350.53	_do_	
17	Providing surface dressing 2nd coat on new or existing surface with 25 lbs bitumen and 3.50 Cft: of bajri of required size including cleaning the road surface rolling etc,complete. (Rate includes all cost of materials T&P and carriage upto 3 chains).								
(B)									
	(a) Using Much Bajri.	% Sft	718.27	3307.65	Sq-m	77.28	355.85	_do_	
	(b) Using Crushed Bajri.	% Sft	718.27	3307.65	Sq-m	77.28	355.85	_do_	
	(c) Using Jharo Bajri.	% Sft	718.27	3273.28	Sq-m	77.28	352.15	_do_	
18	Providing surface dressing 3rd coat on new or existing surface with 14 lbs bitumen and 1.50 Cft: of bajri of required size including cleaning the road surface rolling etc, complete. (Rate includes all cost or materials T&P and carriage upto 3 chains).								
(A)									
	(a) Using Much Bajri.	% Sft	523.80	1943.34	Sq-m	56.35	209.07	_do_	
	(b) Using Crushed Bajri.	% Sft	523.80	1943.34	Sq-m	56.35	209.07	_do_	
	(c) Using Jharo Bajri.	% Sft	523.80	1929.01	Sq-m	56.35	207.53	_do_	
18	Providing surface dressing 3rd coat on new or existing surface with 18 lbs bitumen and 1.50 Cft: of bajri of required size including cleaning the road surface rolling etc, complete. (Rate includes all cost or materials T&P and carriage upto 3 chains).								
(B)									
	(a) Using Much Bajri.	% Sft	523.80	2324.45	Sq-m	56.35	250.08	300 NHA Specification (Surface Courses and Pavement	
	(b) Using Crush Bajri.	% Sft	523.80	2324.45	Sq-m	56.35	250.08	_do_	
	(c) Using Jharo Bajri.	% Sft	523.80	2310.13	Sq-m	56.35	248.53	_do_	

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10

5.PREMIXED CARPET

- 19 Providing 1-1/2" Thick (consolidated) premixed carpet in proper camber and grade including supplying 15 Cft: bajri, 5Cft: hill sand (of approved quality and grade) bitumen of 80/100 Penetration including mixing in mechanical mixer in required Proportion including heating materials and cleaning the road surface (Hill sand 3 Cft: for mixing and 2.0 Cft: for dusting) (Rate includes all cost of materials T&P and carriage upto 3 chains).

300 NHA
Specification
(Surface Courses
and Pavement

(a) Using Much Bajri.	% Sft	7420.60	15988.77	Sq-m	798.34	1720.15	
(b) Using Crushed Bajri.	% Sft	7420.60	15988.77	Sq-m	798.34	1720.15	_do_
(c) Using Jharo Bajri.	% Sft	7420.60	15817.53	Sq-m	798.34	1701.72	_do_

1½" Carpet Laying with Paver Machine.

- 20 Providing and Laying to Proper line and grade 1-½" thick Pre-Mix Carpet with Paver Machine. Prepared to specified fomula according to job mix formula approved by Engineer incharge including rolling and finishing to Properline, grade level and camber etc: (Rate all cost of materials, T&P and carriage upto 3 chains).

- 21 Providing 1" thick (consolidated) premix carpet in proper camber and grade including suppling 10 Cft: bajri, 4 Cft hill sand (of approved quality and grade) bitumen of 80/100 penetration including mixing in mechanical mixer in required Proportion including heating materials and cleaning the road surface (Hill sand 2 Cft: for mixing and 2 Cft: for dusting)(Rate includes all cost of materials T&P and carriage upto 3 chains).

300 NHA
Specification
(Surface Courses
and Pavement

(a) Using Much Bajri.	% Sft	5123.05	10917.08	Sq-m	551.16	1174.51	
(b) Using Crushed Bajri.	% Sft	5123.05	10784.65	Sq-m	551.16	1160.26	_do_
(c) Using Jharo Bajri.	% Sft	5123.05	10689.16	Sq-m	551.16	1149.99	_do_

- 22 Providing 3/4" thick (consolidated) premixid carpet in proper camber and grade including supplying 7.5 Cft: bajri, 3.5 Cft: hill sand (of approved quality and grade) bitumen of 80/100 penetration including mixing in mechanical mixer in required proportion including heating materilas and cleaning the road surface (Hill sand 1.5 Cft: for mixing and 2.0 Cft for dusting)(Rate includes all cost of materilas T&P and carriage upto 3 chains).

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
	carriage upto 3 chains).								
	(a) Using Much Bajri.	% Sft	3912.01	8595.37	Sq-m	420.87	924.73	_do_	
	(b) Using Crushed Bajri.	% Sft	3912.01	8455.41	Sq-m	420.87	909.67	_do_	
	(c) Using Jharo Bajri.	% Sft	3912.01	8383.79	Sq-m	420.87	901.97	_do_	
23	<u>3" (75mm) Asphaltic Base</u>								
	<u>Course Plant mix</u>								
A	Providing and laying Plant mixed Asphalt Concrete Binder Course compacted thickness 3 inches (75mm thick) as per approved job mix formula using crush aggregate from approved sources. Using asphalt of grade 80/100 during laying temperature not less than 140C compacted by steel wheel & PTR roller. The procedure of laying binder course material & methodology shall fully comply with AASHTO and as directed by Engineer Incharge. Minimum bitumen content should be 3.5% binder course shall be spreading using paver machine.Rolling & Finishing to design proper grade line level and camber etc: (Machinery with POLs cost of material carriage).	% Sft	9945.95	26689.14	Sq-m	1070.03	2871.34	203 NHA Specification. Note:The Quantities, provided in the R.As are for estimation purpose. The actual quantities are to be worked out as per approved JMF.	
23	<u>4" (100mm) Asphaltic Base</u>								
	<u>Course Plant mix</u>								
B	Providing and laying Plant mixed Asphalt Concrete Binder Course compacted thickness 4 inches (100mm thick) as per approved job mix formula using crush aggregate from approved sources. Using asphalt of grade 80/100 during laying temperature not less than 140C compacted by steel wheel & PTR roller. The procedure of laying binder course material & methodology shall fully comply with AASHTO and as directed by Entineer Incharge. Minimum bitumen content should be 3.5% binder course shall be spread using pvaer machine.Rolling & Finishing to design proper grade line level and camber etc: (Machinery with POLs cost of material carriage).	% Sft	12996.76	33966.28	Sq-m	1398.25	3654.25	203 NHA Specification. Note:The Quantities, provided in the R.As are for estimation purpose. The actual quantities are to be worked out as per approved JMF.	
24	<u>1½" Thick Asphalt Concrete</u>								
	<u>Wearing Course Plant Mix</u>								
A	Laying mechanically to proper line and grade plant mixed Asphalt Concrete specified formula according to job mixed formula approved by the Engineer incharge rolling and finishing to design Proper grade line level and comber etc (Machinery with POLs Cost of material carriage).	% Sft	5800.45	16859.36	Sqm	624.04	1813.81	305 NHA Specification. Note:The Quantities, provided in the R.As are for estimation purpose. The actual quantities are to be worked out as per approved JMF.	

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
24	<u>2" (50 mm) Thick Asphalt Concrete Wearing Course Plant Mix</u>								
B	Laying to Proper line and grade plant mixed Asphalt concrete paver finished (Hydraulic / Electronic control) Prepared to specified formula according to job mix formula approved by Engineer incharge including rolling and finishing to Properline, grade level and camber etc: (Machinery with POLs cost of material carriage).	% Sft	5800.45	19876.84	Sqm	624.04	2138.44	305 NHA Specification. Note:The Quantities, provided in the R.As are for estimation purpose. The actual quantities are to be worked out as per approved JMF.	
25	Providing Premix patch repairs 1" thick with (40+12+15)= 67 lbs 10 Cft Bajri and 4 Cft Hill Sand including cleaning cutting scattered patches in Proper shape laying premixed chips, rolling etc, complete. (Rate includes cost of all materials, T&P and carriage upto 3 Chains).							300 NHA Specification (Surface Courses and Pavement	
	(a) Using Much Bajri.	% Sft	375.92	6323.60	Sq-m	40.44	680.32		
	(b) Using Crushed Bajri.	% Sft	375.92	6148.65	Sq-m	40.44	661.50		
	(c) Using Jharo Bajri.	% Sft	375.92	6058.63	Sq-m	40.44	651.82		
26	Premixed patch repairs 3/4" thick with (30+9+15)=54 Lbs, 7.5 Bajri and 3.5 Cft Hill Sand including cleaning cutting scattered patches in proper shape, laying premixed chips,rolling etc, complete (Rate includes cost of all materials, T&P and carriage upto 3-chins).								
	(a) Using Much Bajri.	% Sft	1664.84	7015.16	Sq-m	179.11	754.72	_do_	
	(b) Using Crushed Bajri.	% Sft	1664.84	7015.16	Sq-m	179.11	754.72	_do_	
	(c) Using Jharo Bajri.	% Sft	1664.84	6750.69	Sq-m	179.11	726.27	_do_	
	<u>6-SPREADING STONE METAL.</u>								
27	Spreading coarse aggregate in required thickness to Proper camber and grade i/c hand packing. spreading screening at required rate filling depressions, so as to bring it to Proper camber and grade i/c watering the same to full compaction i/c providing& us.	% Cft	2678.42	.....	Cu.m	946.44	.....	206 NHA Specification	
	<u>7-APPLYING BITUMINOUS COAT.</u>								
28	Applying first coat with pressure bitumen boiler binder of approved quality and penetration at the required rate including cleaning the road surface, removing loose material heating the binder to required temperature and spreading chips in required quantity.	% Sft	865.36	.....	Sq-m	93.05	.....	300 NHA Specification (Surface Courses and Pavement	

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
29	Applying Second coat with pressure bitumen boiler binder of approved quality and penetration at the required rate including cleaning the road surface, removing loose material heating the binder to required temperature and spreading chips in required quantity.	% Sft	568.26	.....	Sq-m	61.10	.....	_do_	
30	Applying Third coat with pressure bitumen boiler binder of approved quality and penetration at the required rate including cleaning the road surface, removing loose material heating the binder to required temerature and spreading chips in required quantity.	% Sft	403.79	.....	Sq-m	43.42	.....	_do_	
31	Applying priming coat or tack coat with approved binder at the required rate including cleaning the road surface thoroughly, heating to the required temperature and spraying the binder with pressure as directed etc, complte.	% Sft	350.29	.....	Sq-m	37.67	.....	_do_	
<u>APPLYING OF BITUMENOUS COURSE</u>									
32	Laying to proper camber and grade carpet mechanically mixed of chips of approved gauge and in required gradation and hill sand as directed permixed with binder of approved quality heated to required temperature and mixed in the required proportion as dircted required rate, after heating to required temperature including dusting and finishing surface with hill sand and providing and using side forms etc, complete.								
	(a) 1-1/2"thick premixed carpet	% Sft	5460.61	.....	Sq-m	587.16	.....	_do_	
	(b) 1" thick premixed carpet	% Sft	3791.05	.....	Sq-m	407.64	.....	_do_	
	(c) 3/4" thick premixed carpet	% Sft	2939.48	.....	Sq-m	316.07	.....	_do_	
<u>ROLLING WITH POWER ROLLER.</u>									
<u>EARTH WORK.</u>									
33	Rolling over earth work charges of 10-12 Tons Road Roller.	P.Hour	2295.31	.....	.....	.....	.....	2.1 to 2.4 Which ever is appli- cable.	
34	Rolling with power roller over stone metal to compaction as per modified ASSHO specification.	% Cft	2376.23	.....	Cu.m	839.66	.....	3.1 to 3.4 Which ever is appli- cable.	
35	Rolling with power roller consolidating bituminous work.							5.1 to 5.6 Which ever is appli- cable.	
	(a) Ist coat.	% Sft	200.02	.....	Sq-m	21.52	.....	_do_	
	(b) 2nd coat.	% Sft	150.01	.....	Sq-m	16.14	.....	_do_	
	(c) 3rd coat.	% Sft	120.01	.....	Sq-m	12.91	.....	_do_	
	(d) 3/4 thick carpet.	% Sft	198.02	.....	Sq-m	21.30	.....	_do_	

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
	(e) 1" thick carpet.	% Sft	282.88	.....	Sq-m	30.43	.....	_do_	
	(f) 1-1/2" thick carpet.	% Sft	396.04	.....	Sq-m	42.61	.....	_do_	
	(g) 2" thick carpet.	% Sft	495.05	.....	Sq-m	53.26	.....	_do_	
	<u>LAYING B. B SOLING</u>								
36	Laying bricks of 9" * 4-1/2 * 3" size to proper camber and grade including preparation sub-grade to proper level and grade including ramming, filling the joints with pit sand etc, complete.								
	(a) Bricks on edge.	% Sft	2421.85	.....	Sq-m	260.41	.....		
	(b) Flat bricks.	% Sft	1473.95	.....	Sq-m	158.49	.....		
	(c) Bricks on end edging.	% Sft	1340.59	.....	Sq-m	144.15	.....		
	<u>HEATING OF BITUMEN</u>								
37	Heating charges of bitumen for various types of bituminous works, including contractor's profit.	P.Ton	15123.51	.....	P.Kg	15.12	.....	5.1 to 5.6 Which ever is appli-cable.	
38	<u>MACHINERY WITH P.O.L</u>								
i	Asphalt Plant	P.Hour	48455.69	.....	.....	.....	.....		
ii	Paver Finisher	P.Hour	15622.21	.....	.....	.....	.....		
iii	P.T.R	P.Hour	8618.68	.....	.....	.....	.....		
iv	Dumper Hino	P.Hour	5945.98	.....	.....	.....	.....		
v	Front End Loader	P.Hour	8227.20	.....	.....	.....	.....		
vi	Smooth Wheel Roller	P.Hour	3913.06	.....	.....	.....	.....		
vii	Bitumen Tanker	P.Hour	5690.55	.....	.....	.....	.....		
viii	Bitumen Distributor	P.Hour	9879.51	.....	.....	.....	.....		
ix	D-7 DOZER	P.Hour	7552.25	.....	.....	.....	.....		
x	Water Van	P.Hour	2995.19	.....	.....	.....	.....		
xii	PRIME MOVER	P.Hour	8037.34	.....	.....	.....	.....		
xii	10 – 12 Ton Road Roller	P.Hour	2295.31	.....	.....	.....	.....		
xiii	Motor Grade	P.Hour	7923.58	.....	.....	.....	.....		
xiv	Hire Charges of Bitumen	P.Day	8100.00	.....	.....	.....	.....		
39	<u>MISCELLANEOUS</u>								
1	Jungle clearance and removing within 100 ft.								
	(a) Thin Jungle.	% Sft	396.07	.....	%Sq-m	4258.86	.....		
	(b)Thick Jungle.	% Sft	792.15	.....	%Sq-m	8517.73	.....		

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
2	Making and maintaining diversion during construction including supplying necessary barriers, notice boards with lighting arrangements and providing temporary crossing over the water courses where ever necessary so as to be a good motorable condition.	P.Mile	374661.40	.....	P.K.m	232853.57	.....		
3	Breaking stone ballast screened and stacked. (a) 2" to 1-1/2" gauge. (b) 1" to 1-1/2" gauge.	% Cft % Cft	5545.04 6337.19	..... .....	Cu.m Cu.m	1959.38 2239.29	..... .....		
4	Cutting and removing trees within distances of 100 ft: (a) Upto 2.0ft : Girth. (b) 2.50 Ft. to 6.0 Ft. Girth. (c) Removal of trees 150mm to 300mm girth including uprooting and disposal to (outside limits) designated places.	Each Each Each	2763.26 5397.57 559.29	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....		
5	Up-rooting stumps and removing within 100 ft: (a) 2.0 FT: TO 6.0 FT: GIRTH.	Each	3168.59	.....	.....	.....	.....		
6	Scarifying the existing road surface.	% Sft	633.72	.....	Sq-m	68.14	.....		
7	Making diagonal grooves of 1-1/2" * 1-1/2" at 2 FT: centre to centre in road surface.	% Sft	792.15	.....	Sq-m	85.18	.....		
8	Breaking stone ballast, screening and stacking. 2" Ring.	% Cft	4752.89	.....	Cu.m	1679.47	.....		
9	Cleaning and grubbing the service road within 12 ft: width for making and maintaining of diversion.	P.Mile	22395.50	.....	P.K.m	13918.89	.....		
10	Cost of 100 Cft: of much bajri at source of supply 3/8" to 3/4" gauge, free from dust and other material.	% Cft	8563.70	.....	Cu.m	3026.04	.....		
11	Dismantling of existing asphalt concrete road including base, sub-base and disposal of dismantled materials to designated placed.	% Sft	2758.09	.....	Cu.m	974.59	.....		
12	<u>Cat Eyes / Road Studs</u> Supplying and Fixing of reflectorize Road Studs Double Face, Flush surface type.	Each	.....	1520.42	.....	.....	.....	609 NHA Specification	
13	<u>Thermo Plastic Paint</u> Pavement marking in Reflective Thermo Plastic Paint for Lines of 6" Width.	P.Rft	.....	86.10	Rm	282.51	.....	608 NHA Specification	
14	<u>Kerb Stone</u> Providing & fixing Precast Edge Block 3750 PSI Industrial Made Size 6 inches thick x 12 inches long x 18 inches high including the cost of Cartage, excavation, form Work for haunching, 1450 PSI lean concrete, 2250 PSI concrete for haunching, 1:4 cement sand mortar.	P.Rft	.....	678.38	Rm	.....	2225.09		

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
15	Providing and laying fairfaced reinforced cement concrete new jersey barrier having 3000 PSI compressive cylindrical strength Concrete (Ready mixed concrete) (area 3.50 Sft) as per drawing including the cost of excavation, formwork, lean concrete 1450 PSI compressive cylindrical strength etc. complete in all respect. (excluding the cost steel reinforcement).	P.Rft	.....	7351.84	R.m	.....	24114.04		
16	Providing and laying fairfaced reinforced cement concrete new jersey barrier having 3000 PSI compressive cylindrical strength Concrete (Ready mixed concrete) (area 2.0 Sft) as per drawing including the cost of excavation, formwork, lean concrete 1450 PSI compressive cylindrical strength etc. complete in all respect. (excluding the cost steel reinforcement).	P.Rft	.....	4201.06	R.m	.....	13779.48		
17	Providing and laying fairfaced reinforced cement concrete new jersey barrier having 3000 PSI compressive cylindrical strength Concrete (Ready mixed concrete) (area 1.50 Sft) as per drawing including the cost of excavation, formwork, lean concrete 1450 PSI compressive cylindrical strength etc. complete in all respect. (excluding the cost steel reinforcement).	P.Rft	.....	3150.80	R.m	.....	10334.62		
18	<u>Traffic Signs</u>								
(a)	Providing & Fixing traffic sign 3' dia G.I.Pipe post and sign of equilateral triangular shape each side 3' long i/c Painting, Marking as directed each.	Each	.....	55873.81	.....	.....	.....		
(b)	Providing & Fixing 3' dia G.I single post sign of circular shape 3' Dia i/c Painting, Marking as directed each.	Each	.....	55873.81	.....	.....	.....		
(c) I	Providing & Fixing Rectangular shape 3'x2' comprizing 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each.	Each	.....	52117.78	.....	.....	.....		
(c) II	Providing & Fixing Informatory Sign Rectangular shape 4'x3' comprizing 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each.	Each	.....	56706.63	.....	.....	.....		
(e)	KILOMETER POST Providing & fixing Precast RCC Km Posts i/c foundation work, Painting and lettering as directed each.	Each	.....	8549.21	.....	.....	.....		

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
19	Extra for every 50 ft. additional lead or a part there of earth work excavation in for gravel shingle or rock.	%0Cft.	304.87	.....	.....	.....	.....		
20	Rehandling of earth work , Lead upto single throw of Khassi, phaorah or shovel.	%0Cft	3960.74	.....	.....	.....	.....		
21	Earth work excavation in ashes sand, soft or silt clearance undressed lead upto 50 ft.	%0Cft	2376.45	.....	.....	.....	.....		
22	Dressing and levelling of earth work to designed section etc, complete.								
	(a) Ashes and silt or soft soil	%0Cft	506.98	.....	.....	.....	.....		
	(b) Ordinary or hard soil	%0Cft	982.26	.....	.....	.....	.....		
	(c) Gravel work of soft rock not requiring blasting	%0Cft	2376.45	.....	.....	.....	.....		
23	Dowel dressing (The rate is in addition to payment for dressed earth work).	%0Cft	554.50	.....	.....	.....	.....		
24	Earth work compaction. Compaction by rolling (This rate does not includes the hire charges of the roller.)				---				
	(i) Soft or Sandy Soil	% 0Cft	2376.45						
	(ii) Ordinary Soil	% 0Cft	2772.52						
	(iii) Hard Soil	% 0Cft	3168.59						
	(iv) Admixture of Shingle	% 0Cft	3564.67						
24(b)	Earthwork compaction.				---				
	(a) Laying Earth in 6" Layers	% 0Cft	1378.34						
	(b) Laying Earth in 6" Layers	% 0Cft	1853.63						
25	Borrow Pit excavation undressed lead upto 100 Cft				---				
	(a) Ordinary or Soft soil.	% 0Cft	11090.08						
26	Extra for every 50 ft. additional lead or a part there of earthwork excavation in ashes sand, soft soil or silt.	% 0Cft	152.75		---				
27	Extra for every 50 ft. Additional lead or a part there of earthwork excavation in ordinary soil.	% 0Cft	199.18		---				
28	Earthwork excavation in irrigation Channels drains etc, dressed to designed section, grades & profiles excavated material disposed off within 50 ft. lead and dressed.				---				
	(a) Ordinary Soil.	% 0Cft	12674.38						
	(b) Hard Soil	% 0Cft	15209.25						
40	<u>COLD MILLING</u>								
(a)	Scarifying the existing road surface by means of Cold Milling upto the depth of 0-30mm including removal of excavated material from the site	Sft	---	17.85	Sq.m	---	192.18	309 NHA Specification	

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
(b)	Scarifying the existing road surface by means of Cold Milling upto the depth of 0-50mm including removal of excavated material from the site	Sft	---	29.76	Sq.m	---	320.30	309 NHA Specification	
(c)	Scarifying the existing road surface by means of Cold Milling upto the depth of 0-70mm including removal of excavated material from the site	Sft	---	44.64	Sq.m	---	480.46	309 NHA Specification	
41	<u>GROUTED RIPRAP</u>								
(a)	Providing and fixing Durable Rock having dia of 20cm from approved quarry with Cement Sand Mortar (Ratio 1:3)	Cft	---	507.83	Cu.m	---	17933.90	509 NHA Specification	
(b)	Providing and fixing Durable Rock having dia of 45cm from approved quarry with Cement Sand Mortar (Ratio 1:3)	Cft	---	441.66	Cu.m	---	15597.13	509 NHA Specification	
(c)	Providing and fixing Durable Rock having dia of 60cm from approved quarry with Cement Sand Mortar (Ratio 1:3)	Cft	---	428.65	Cu.m	---	15137.85	509 NHA Specification	
42	<u>METAL GUARD RAIL</u>								
(a)	Providing and fixing galvanized corrugated Metal Guard Rail with the tensile strength of 4900 kg/sq.cm(min) and elongation not less than 12 percent in a 2in gauge length.	Per Ft	---	4038.01	Per M	---	13,248.73	604 NHA Specification	
(b)	Providing and Fixing Metal Guard Rail End Pieces	Each	---	13913.92		---		604 NHA Specification	
(c)	Providing and Fixing Steel Post for Metal Guard Rail	Each	---	13268.56		---		604 NHA Specification	
43	<u>Prestressed Concrete Bridges (Highways)</u>								
The Composite Rates below are inclusive of cartage/carriage of materials from approved quareis/source of material.No separate carriage of materials to be incorporated in the estimate or to be paid to the contractor)									
1	Concrete Class A1 (Underground)	Cft	---	680.22	Cu.m	---	24,021.96	400 NHA Specification	
2	Concrete Class A1 (On Ground)	Cft	---	738.96	Cu.m	---	26,096.27	_do_	
3	Concrete Class A1 (Elevated)	Cft	---	767.40	Cu.m	---	27,100.60	_do_	
4	Concrete Class A2 (Underground)	Cft	---	721.12	Cu.m	---	25,466.40	_do_	
5	Concrete Class A2 (On Ground)	Cft	---	780.46	Cu.m	---	27,562.07	_do_	
6	Concrete Class A2 (Elevated)	Cft	---	798.46	Cu.m	---	28,197.47	_do_	
7	Concrete Class A3 (Underground)	Cft	---	777.94	Cu.m	---	27,472.95	_do_	
8	Concrete Class A3 (On Ground)	Cft	---	847.98	Cu.m	---	29,946.55	_do_	
9	Concrete Class A3 (Elevated)	Cft	---	844.12	Cu.m	---	29,810.26	_do_	
10	Concrete Class B	Cft	---	516.58	Cu.m	---	18,243.05	_do_	

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
11	Concrete Class C (Underground)	Cft	---	629.03	Cu.m	---	22,214.27	_do_	
12	Concrete Class C (On Ground)	Cft	---	682.81	Cu.m	---	24,113.56	_do_	
13	Concrete Class C (Elevated)	Cft	---	718.19	Cu.m	---	25,362.79	_do_	
14	Concrete Class "D1 "	Cft	---	959.94	Cu.m	---	33,900.42	_do_	
15	Concrete Class "Y "	Cft	---	806.51	Cu.m	---	28,481.89	_do_	
16	Lean Concrete	Cft	---	393.40	Cu.m	---	13,892.95	_do_	
17	Precast Concrete Class "A1"	Cft	---	748.49	Cu.m	---	26,432.94	_do_	
18	Precast Concrete Class "A3"	Cft	---	826.83	Cu.m	---	29,199.53	_do_	
19	Precast Concrete Class "B"	Cft	---	676.81	Cu.m	---	23,901.37	_do_	
20	Precast Concrete Class "D1"	Cft	---	971.99	Cu.m	---	34,325.88	_do_	
21	Precast Concrete Class "D2"	Cft	---	1031.81	Cu.m	---	36,438.41	_do_	
22	Precast Concrete Class "D3"	Cft	---	1081.67	Cu.m	---	38,199.17	_do_	
23	Plum Concrete	Cft	---	410.57	Cu.m	---	14,499.44	_do_	
24	Reinforcement As Per AASHTO M-31 Grade 40 including cutting,bending,binding and fixing in position for required components of Pre-Stressed Bridges.The rate also include the cost of binding wire and its labour fixing		---		Ton	---	367,990.60	_do_	
25	Reinforcement As Per AASHTO M-31 Grade 60 including cutting,bending,binding and fixing in position for required components of Pre-Stressed Bridges.The rate also include the cost of binding wire and its labour fixing		---		Ton	---	372,699.59	_do_	
26	Reinforcement (Structural Shapes) As Per ASTM-A-36 including cutting,bending,binding and fixing in position for required components of Pre-Stressed Bridges.The rate also include the cost of binding wire and its labour fixing		---		Ton	---	357,990.71	_do_	
27	Pre-Stressing Wires Strands 3/8" - 1/2" Dia Complete In All Respects		---		Ton	---	460,389.77	_do_	
28	Launching Of Girder		---		Ton	---	2,492.53	_do_	
29	Premoulded Joint Filler 12mm Thick	Sft	---	502.63	Sq.m	---	5,410.27	_do_	
30	Neoprene Rubber Joint Filler 12mm Thick With Bitumastic Joint Seal	Sft	---	367.28	Sq.m	---	3,953.39	_do_	

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
31	Steel Expansion Joints (Locals)		---		Kg	---	911.72	_do_	
32	Steel Expansion Joints With Two Extruded Aluminum Alloy Sections For 50mm Movement (Imported)	Ft	---	32319.68	Mtr	---	106,040.86	_do_	
33	Steel Expansion Joints With Cast Aluminum Alloy Triangular Teeth For 110mm Movement (Imported)	Ft	---	52662.99	Mtr	---	172,787.27	_do_	
34	Steel Expansion Joints With Cast Aluminum Alloy Cantilever Teeth For 300mm Movement (Imported)	Ft	---	59991.67	Mtr	---	196,832.68	_do_	
35	Steel Expansion Joints Monoblock Type For 65mm Movement (Imported)	Ft	---	27740.41	Mtr	---	91,016.29	_do_	
36	Pvc Water Stops 8" Size	Ft	---	1046.10	Mtr	---	3,432.24	_do_	
37	Elastomeric Bearing Pads (According To Size And Thickness) Local		---		Cu.Cm	---	9.24	_do_	
38	Elastomeric Bearing Pads (According To Size And Thickness) Imported		---		Cu.Cm	---	10.41	_do_	
39	Asphalt Felt (3 Ply)	Sft	---	98.77	Sq.m	---	1,063.19	_do_	
40	Cast In Place Piles Upto 1.00 M Dia In Normal Soil (Boring Only)	Ft	---	3481.93	Mtr	---	11,423.50	_do_	
41	Cast In Place Piles Upto 1.00 M Dia In Gravel Strata (Boring Only)	Ft	---	4999.88	Mtr	---	16,403.74	_do_	
42	Cast In Place Piles Upto 1.10 - 1.50 M Dia In Normal Soil (Boring Only)	Ft	---	6901.57	Mtr	---	22,643.25	_do_	
43	Cast In Place Piles Upto 1.10 - 1.50 M Dia In Gravel Strata (Boring Only)	Ft	---	10042.81	Mtr	---	32,950.47	_do_	
44	Cast In Place Piles Upto 1.60 - 2.00 M Dia In Normal Soil (Boring Only)	Ft	---	9727.08	Mtr	---	31,910.46	_do_	
45	Cast In Place Piles Upto 1.60 - 2.00 M Dia In Gravel Strata (Boring Only)	Ft	---	15349.83	Mtr	---	29,692.50	_do_	
46	Pile Load Test Upto 550 Tonne	No	---	2134547.35		---		_do_	
47	Pile Load Test Upto 800 Tonne	No	---	3048495.90		---		_do_	
48	Confirmatory Boring (Nx) Size	Ft	---	3448.65	Mtr	---	11,315.03	_do_	
49	Permanent Pile Casing For Piles		---		Ton	---	443,816.03	_do_	
50	Brick Work	Cft	---	518.81	Cu.m	---	18,321.63	_do_	
51	Stone Masonry Random Dry	Cft	---	174.88	Cu.m	---	6,175.89	_do_	
52	Stone Masonry Random With Mortar	Cft	---	334.08	Cu.m	---	11,797.95	_do_	
53	Stone Masonry Dressed Uncoursed Dry	Cft	---	225.20	Cu.m	---	7,952.82	_do_	
54	Stone Masonry Dressed Uncoursed With Mortar	Cft	---	387.06	Cu.m	---	13,669.19	_do_	

Sr.No	Description	Imperial Units.			S.I.Unit.			Specification	Remarks
		Units	Labour	Composite	Units	Labour	Composite		
1	2	3	4.00	5.00	6.00	7.00	8	9	10
55	Roll Pointing	Sft	---	71.25	Sq.m	---	766.89	_do_	
56	Stone Masonry Dressed Coursed With Mortar	Cft	---	435.01	Cu.m	---	15,362.31	_do_	

GOVERNMENT OF SINDH



SCHEDULE OF RATES

FOR

ELECTRICAL WORKS FINISHED ITEMS

VOLUME-III, PART-V

THIRD EDITION 2024

PUBLICATION NO. 67

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(FINISHED ITEMS)
THIRD EDITION -2024

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SCHEDULE OF RATES FOR ELECTRICAL WORKS FINISHED ITEMS

ITEMS RATES

Note: The Cable and Electric items manufactured by manufacturer confirming of Pakistan Standard Quality and Control Authority (PSQCA)

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
A. <u>WITH 2 WIRE PVC CONDUIT ON SURFACE</u>					
1	Providing & laying (Main or Sub Main) PVC insulated with size 2-3/.029 copper conductor in ¾" Dia PVC conduit in surface.	Per Rft.	36.88	288.68	
2	Providing & laying (Main or Sub Main) PVC insulated with size 2-3/.036 copper conductor in ¾" Dia PVC conduit in surface.	Per Rft.	73.76	333.98	
3	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/0.29 copper conductor in ¾" Dia PVC conduit on surface.	Per Rft.	73.76	404.64	
4	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/.036(4mm2) copper conductor in ¾" Dia PVC conduit on surface.	Per Rft.	73.76	510.47	
5	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/.044(6mm2) copper conductor in 1" Dia PVC conduit on surface.	Per Rft.	73.76	671.52	
6	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/.052(10mm2) copper conductor in 1" Dia PVC conduit on surface.	Per Rft.	73.76	978.59	
7	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/.064(16mm2) copper conductor in 1" Dia PVC conduit on surface.	Per Rft.	73.76	1123.35	
B. <u>WITH 2 WIRE PVC CONDUIT RECESSED IN THE WALL OR COLUMNS</u>					
8	Providing & laying (Main or Sub Main) PVC insulated with size 2.3/.029 copper conductor in ¾" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	65.59	330.26	
9	Providing & laying (Main or Sub Main) PVC insulated with size 2-3/.036 copper conductor in ¾" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	65.59	330.26	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
10	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/.029 copper conductor in ¾" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	65.59	400.92	
11	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/.036 copper conductor in ¾" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	65.59	506.75	
12	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/.044 copper conductor in ¾" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	59.28	660.91	
13	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/.052 copper conductor in ¾" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	65.59	974.28	
14	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/.064 copper conductor in ¾" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	65.59	1127.47	
C <u>WITH 3 WIRE PVC CONDUIT ON SURFACE</u>					
15	Providing & laying (Main or Sub Main) PVC insulated with size 3-3/.029 copper conductor in ¾" dia PVC conduit on surface.	Per Rft.	36.88	477.77	
16	Providing & laying (Main or Sub Main) PVC insulated with size 3-3/.036 copper conductor in ¾" dia PVC conduit on surface.	Per Rft.	36.88	477.77	
17	Providing & laying (Main or Sub Main) PVC insulated with size 3-7-3/.029 copper conductor in ¾" dia PVC conduit on surface.	Per Rft.	60.89	667.06	
18	Providing & laying (Main or Sub Main) PVC insulated with size 3-7/.036(4mm2) copper conductor in ¾" dia PVC conduit on surface.	Per Rft.	60.89	916.79	
19	Providing & laying (Main or Sub Main) PVC insulated with size 3-7/.044(6mm2) copper conductor in 1" dia PVC conduit on surface.	Per Rft.	73.76	1329.97	
20	Providing and laying (Main or sub Main)PVC insulated with size 3-7/.052 (10mm2) copper conductor in 1" dia PVC conduit on surface	Per Rft.	73.76	1935.39	
21	Providing & laying (Main or Sub Main) PVC insulated with size 3-7/.064(10mm2) copper conductor in 1" dia PVC conduit on surface.	Per Rft.	73.76	2264.73	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
D	<u>WITH 3 WIRE PVC CONDUIT RECESSED IN THE WALL OR COLUMN</u>				
22	Providing & laying (Main or Sub Main) PVC insulated with size 3-3/.029 copper conductor in ¾" dia PVC conduit recessed in the wall or coumn as required.	Per Rft.	65.59	519.35	
23	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 3-3/.036 copper conductor in ¾" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	65.59	411.54	
24	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 3-7/.029 copper conductor in ¾" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	65.59	684.64	
25	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 3-7/.036 copper conductor in ¾" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	65.59	934.36	
26	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 3-7/.044 (6mm2) copper conductor in 1" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	102.47	1370.97	
27	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 3-7/.052 (10mm2) copper conductor in 1" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	102.471	1976.39	
28	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 3-7/.064 (16mm2) copper conductor in 1¼" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	102.471	2339.21	
E	<u>WITH 4 WIRE PVC CONDUIT ON SURFACE</u>				
29	Providing & laying (Main or Sub Main) PVC insulated with size 4-3/.029 copper conductor in 1" dia PVC conduit on surface.	Per Rft.	36.88	737.84	
30	Providing & laying (Main or Sub Main) PVC insulated with size 4-3/.036 copper conductor in 1" dia PVC conduit on surface.	Per Rft.	36.88	565.15	
31	Providing & laying (Main or Sub Main) PVC insulated with size 4-7/.029 copper conductor in 1" dia PVC conduit on surface.	Per Rft.	73.76	1063.30	
32	Providing & laying (Main or Sub Main) PVC insulated with size 4-7/.036 (4mm2) copper conductor in 1" dia PVC conduit on surface.	Per Rft.	73.76	1498.59	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
33	Providing & laying (Main or Sub Main) PVC insulated with size 4-7/.044 (6mm ²) copper conductor in 1½" dia PVC conduit on surface.	Per Rft.	73.76	2134.12	
34	Providing & laying (Main or Sub Main) PVC insulated with size 4-7/.052 (10mm ²) copper conductor in 1½" dia PVC conduit on surface.	Per Rft.	73.76	3331.71	
35	Providing & laying (Main or Sub Main) PVC insulated with size 4-7/.064 (16mm ²) copper conductor in 1½" dia PVC conduit on surface.	Per Rft.	73.76	4091.08	
F	<u>WITH 4 WIRE PVC CONDUIT RECESSED IN THE WALL OR COLUMN</u>				
36	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 4-3/.029 copper conductor in 1" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	102.47	615.20	
37	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 4-3/.036 copper conductor in 1" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	101.18	704.92	
38	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 4-7/.029 copper conductor in 1" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	102.47	927.64	
39	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 4-7/.036 copper conductor in 1" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	102.47	1240.76	
40	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 4-7/.044(6mm ²) copper conductor in 1½" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	139.35	1829.39	
41	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 4-7/.052(10mm ²) copper conductor in 1½" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	115.34	2851.67	
42	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 4-7/.064(16mm ²) copper conductor in 1½" Dia PVC conduit recessed in the wall or column as required.	Per Rft.	115.34	4149.05	
I	<u>WITH 2 CORE OVERHEAD OR UNDERGROUND 300/500</u>				
43	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 1.5mm ²	P.Rft	77.22	250.86	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
44	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 2.5mm ²	P.Rft	60.89	269.86	
45	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 4mm ²	P.Rft	60.89	322.77	
46	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm ²	P.Rft	60.89	408.49	
47	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 10mm ²	P.Rft	86.63	601.80	
J WITH 3 CORE OVERHEAD OR UNDERGROUND 300/500					
48	Providing & laying (MAIN or SUB MAIN) PVC insulated with three core copper conductor 300/500 volts size 1.5mm ² 4mm ²	P.Rft	60.89	271.50	
49	Providing & laying (MAIN or SUB MAIN) PVC insulated with three core copper conductor 300/500 volts size 2.5mm ²	P.Rft	60.89	326.59	
50	Providing & laying (MAIN or SUB MAIN) PVC insulated with three core copper conductor 300/500 volts size 4mm ²	P.Rft	60.89	420.23	
51	Providing & laying (MAIN or SUB MAIN) PVC insulated with three core copper conductor 300/500 volts size 6mm ²	P.Rft	60.89	550.20	
52	Providing & laying (MAIN or SUB MAIN) PVC insulated with three core copper conductor 300/500 volts size 10mm ²	P.Rft	86.63	791.79	
K WITH 3 CORE OVERHEAD OR UNDERGROUND 600/1000					
53	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with three core copper conductor 600/1000 volts size 16mm ²	Per Rft.	153.46	1114.19	
54	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with three core copper conductor 600/1000 volts size 25mm ²	Per Rft.	153.46	1486.58	
55	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with three core copper conductor 600/1000 volts size 35mm ²	Per Rft.	153.46	1876.86	
56	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with three core copper conductor 600/1000 volts size 50mm ²	Per Rft.	153.46	2481.21	
57	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with three core copper conductor 600/1000 volts size 70mm ²	Per Rft.	153.46	5161.01	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
58	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with three core copper conductor 600/1000 volts size 95mm ²	Per Rft.	169.30	6256.29	
59	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with three core copper conductor 600/1000 volts size 120mm ²	Per Rft.	169.30	5497.81	
60	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with three core copper conductor 600/1000 volts size 150mm ²	Per Rft.	185.15	6756.95	
61	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with three core copper conductor 600/1000 volts size 185mm ²	Per Rft.	185.15	8309.14	
I WITH 3 CORE OVERHEAD OR UNDERGROUND 600/1000					
62	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core copper conductor 600/1000 volts size 25mm ²	Per Rft.	153.46	1723.47	
63	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core copper conductor 600/1000 volts size 35mm ²	Per Rft.	153.46	2113.32	
64	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core copper conductor 600/1000 volts size 50mm ²	Per Rft.	169.30	2852.40	
65	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core copper conductor 600/1000 volts size 70mm ²	Per Rft.	169.30	3829.00	
66	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core copper conductor 600/1000 volts size 95mm ²	Per Rft.	169.30	5077.36	
67	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core copper conductor 600/1000 volts size 120mm ²	Per Rft.	169.30	6548.01	
68	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core copper conductor 600/1000 volts size 150mm ²	Per Rft.	204.94	7704.64	
69	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core copper conductor 600/1000 volts size 185mm ²	Per Rft.	185.15	9603.11	
70	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core copper conductor 600/1000 volts size 240mm ²	Per Rft.	185.15	12283.43	
K WITH 3.5 CORE OVERHEAD OR UNDERGROUND 600/1000 (Armoured)					
71	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core Armoured copper conductor 600/1000 volts size 25mm ²	Per Rft.	153.46	2053.90	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
72	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core Armoured copper conductor 600/1000 volts size 35mm2	Per Rft.	153.46	2453.03	
73	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core Armoured copper conductor 600/1000 volts size 50mm2	Per Rft.	153.46	3133.56	
74	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core Armoured copper conductor 600/1000 volts size 70mm2	Per Rft.	185.15	4384.10	
75	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core Armoured copper conductor 600/1000 volts size 95mm2	Per Rft.	185.15	5708.38	
76	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core Armoured copper conductor 600/1000 volts size 120mm2	Per Rft.	249.01	7484.31	
77	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core Armoured copper conductor 600/1000 volts size 150mm2	Per Rft.	249.01	8340.87	
78	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core Armoured copper conductor 600/1000 volts size 185mm2	Per Rft.	249.01	10216.77	
79	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC Sheeted with 3.5 core Armoured copper conductor 600/1000 volts size 240mm2	Per Rft.	281.18	12426.28	
O.	WITH 4 CORE OVERHEAD OR UNDERGROUND 600/1000				
80	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 16mm2	Per Rft.	121.29	1937.18	
81	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 25mm2	Per Rft.	121.29	2538.04	
82	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 35mm2	Per Rft.	121.29	3241.44	
83	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 50mm2	Per Rft.	121.29	4876.85	
84	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 70mm2	Per Rft.	185.15	6668.83	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
N.	WITH 4 CORE OVERHEAD OR UNDERGROUND 300/500				
85	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 95mm ²	Per Rft.	185.15	8858.50	
86	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 120mm ²	Per Rft.	185.15	11678.63	
87	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 150mm ²	Per Rft.	217.32	15035.30	
88	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 185mm ²	Per Rft.	281.18	18045.87	
89	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 240mm ²	Per Rft.	281.18	23241.09	
P.	WITH 4 CORE ARMoured OVERHEAD OR UNDER GROUND 600/1000				
90	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core Armoured copper conductor 600/1000 volts size 16mm ²	Per Rft.	121.29	1481.86	
91	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core Armoured copper conductor 600/1000 volts size 25mm ²	Per Rft.	121.29	2051.74	
92	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core Armoured copper conductor 600/1000 volts size 35mm ²	Per Rft.	121.29	2594.09	
93	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core Armoured copper conductor 600/1000 volts size 50mm ²	Per Rft.	137.13	3506.17	
94	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core Armoured copper conductor 600/1000 volts size 70mm ²	Per Rft.	185.15	4716.92	
95	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core Armoured copper conductor 600/1000 volts size 95mm ²	Per Rft.	185.15	5915.07	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
96	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core Armoured copper conductor 600/1000 volts size 120mm ²	Per Rft.	185.15	7829.39	
97	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core Armoured copper conductor 600/1000 volts size 150mm ²	Per Rft.	216.83	9367.96	
98	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core Armoured copper conductor 600/1000 volts size 185mm ²	Per Rft.	281.18	11470.58	
99	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core Armoured copper conductor 600/1000 volts size 240mm ²	Per Rft.	281.18	14671.85	
N. POINT WIRING SUB-HEAD II					
101	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required	Per Point.	737.58	6364.33	
102	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required	Per Point.	1153.41	6573.50	
103	Wiring for plug point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required	Per Point.	737.58	3816.06	
104	Wiring for plug point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required	Per Point.	1153.41	4372.29	
105	Wiring for call bell point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required	Per Point.	737.58	6331.76	
106	Wiring for call bell point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required	Per Point.	1153.41	6712.49	
107	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") channel patti on surface as required	Per Point.	737.58	5958.53	
108	Wiring for plug point with 3/.029 PVC insulated wire in 20mm (3/4") channel patti on surface as required	Per Point.	737.58	3442.83	
109	Wiring for call bell point with 3/.029 PVC insulated wire in 20mm (3/4") channel patti on surface as required	Per Point.	737.58	5958.53	
M. SUB HEAD IV FOUNDATION AND POLES					

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
110	Providing & fixing of MS tabular pole as following specification to be fixed on per-cast foundation with the help of hydraulic crane & mannual labour. 20ft-(6" dia) x 5ft (5" dia) x 5.5ft (4" dia)= 31ft wall thickness 8 SWG Base plate 18 x 18" x ¾" Hole 4 no's stiffeners 4 nos 9½" x 4½"x½" Making window in the pole required size with LN key porvision Two coats red oxide (2coat) as rust preventive & of required oil paint (2 ocat) as per site requirement & instruction of EI.	Per Pole.	10118.39	117699.89	
111	Providing & fixing of MS tabular pole as following specification to be fixed on per-cast foundation with the help of hydraulic crane & mannual labour. 6Mtr-(6" dia) X 3Mtrs(5" dia) x 3Mtrs (4" dia) = 40ftwall thickness 8 SWG Base plate 18 x 18" x ¾" Hole 4 no's stiffeners 4 nos 9½" x 4½"x½" Making window in the pole required size with LN key porvision Two coats red oxide (2coat) as rust preventive & of required oil paint (2 ocat) as per site requirement & instruction of EI.	Per Pole.	11712.47	133423.36	
112	Providing & fixing of MS tabular pole as following specification to be fixed on per-cast foundation with the help of hydraulic crane & mannual labour 50 ft long with dia of pole at the top 6" & bottom 24" wall thickness 6mmm Base plate 38 x 38" x 1" Stiffener 12" x 6" x ½" 8 nos Hole 8 no's Making window in the pole required size with LN key porvision Two coats red oxide (2coat) as rust preventive Two coats oil paint (2 ocat) as per site requirement & instruction of EI.	Per Pole.	12346.19	1183034.61	
113	Providing & fixing of MS hexagonal pole as pe folloing specification to be fixed on per-cast foundation with the help of hydraulic crane & mannual labour 40 ft long with dia of pole at the top 4" & bottom 12" wall thickness 6mmm Base plate 24"x 24" x 1" Stiffener 12" x 6" x ½" 8 nos Hole 6 no's Making window in the pole required size with LN key porvision Two coats red oxide (2coat) as rust preventive Two coats oil paint (2 ocat) as per site requirement & instruction of EI.	Per Pole.	11712.47	259693.97	
114	Providing & fixing of MS hexagonal pole as pe folloing specification to be fixed on per-cast foundation with the help of hydraulic crane & mannual labour 40 ft long with dia of pole at the top 6" & bottom 18" wall thickness 6mmm Base plate 32"x 32" x 1" Stiffener 12" x 6" x ½" 6 nos Hole 6 no's Making window in the pole required size with LN key porvision Two coats red oxide (2coat) as rust preventive Two coats oil paint (2 ocat) as per site requirement & instruction of EI.	Per Pole.	11712.47	318193.97	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
115	Providing & fixing of MS tabular pole 3ft long buried in the ground as per following specification 20ft (6" dia) x 5.5ft (4" dia) = 31ft wall thickness 8mm & SWG Base plate 16"x 16" x 1" Stiffener 12" x 6" x 1/4" Two coats red oxide as rust preventive Two coats oil paint Excavation of hard/soft soil 2" x 2" x 6" with 1"4"8" ratio CC work 1"3"6" cast in situ in one mould of (1 1/2" dia) including form work, rodding curing, etc complete with CC collar about 2ft high from ground level duly plastered as per site requirement & instruction of EI.	Per Pole.	11078.75	117394.31	
116	Providing & fixing of MS tabular pole 3ft long buried in the ground as per following specification 20ft (6" dia) x 10ft (4" dia)=40ft wall thickness 8 SWG Base plate 16"x 16" x 1/4" Two coats red oxide as rust preventive Two coats oil paint Excavation of hard/soft soil 2' x 2' x 6' Lean size 2'x2'x6" with 1"4"8" ratio CCwork 1"3"6" cast in situ in one mould of (1 1/2" dia) including form work, rodding. curing, etc complete with CC collar about 2ft high from ground level duly plastered as per site requirement & instruction of EI	Per Pole.	11712.47	137427.10	
117	Construction of RCC foundation as per following specification & instruction of EI for 31 ft/40 ft long tubular pole Excavation of sof/hard soil 3'x3'x5.5' Stone soiling 3'x3'x6" making lean in the ration of 1:4:8: Length of MS bolts 6 1/2" (3/4" dia) 4 nos's making thread on MS rod Template 16"x16"x1/4" Rings 1/4" dia round bar 4 no's to the welded with MS rod RCC foundation ration n1:2:4: with appropriate size 2'x2'x6.5'	Per No:	9177.60	46369.16	
118	Construction of RCC foundation as per following specificatio & instruction of EI for 40 ft/50 ft long hexagonal pole 18" x 6" Excavation of sof/hard soil 3'x3'x5.5' Stone soiling 3'x3'x6" making lean in the ration of 1:4:8: Length of MS bolts 6 1/2" (3/4" dia) 4 nos's making thread on MS rod Template 16"x16"x1/4" Rings 1/4" dia round bar to the welded with MS rod RCC foundation ration 1:2:4: with appropriate size 2.5'x2.5'x8.5'	Per No:	11712.47	52274.57	
119	Construction of RCC foundation as per following specificatio & instruction of EI for 40 ft/50 ft long hexagonal pole 18" x 6" Excavation of sof/hard soil 4'x4'x 9' Stone soiling 4'x4'x6" making lean in the ration of 1:4:8: Length of MS bolts 9 1/2" (1 1/4" dia) 8 nos's making thread on MS rod Template 22"x22"x1/4" Rings 1/4" dia round bar to the welded with MS rod RCC foundation ration 1:2:4: with appropriate size 2.5'x2.5'x8.5'	Per No:	11712.47	74555.75	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
120	Construction of RCC foundation as per following specificatio & instruction of EI for 31 ft/40 ft long tubular pole Excavation of sof/hard soil 3'x3'x5.5' Stone soiling 3'x3'x6" making lean in the ration of 1:4:8: Length of MS bolts 7½" (1" dia) 4 nos's making thread on MS rod Template 16"x16"x¼" Rings ¼" dia round bar 6 no's to the welded with MS rod RCC foundation ration n1:2:4: with appropriate size 2'x2'x6.5'	Per No.	11712.47	92142.25	
121	Manufacturing providing & fixing GI single Arm double arch as per site requirement instruction of EI with following Specification GI pipe 2" dia 10 SWG 5" long 2nos MS clams with nuts & bolts	Per No.	4742.3376	18370.283	
122	Manufacturing providing & fixing GI single Arm double arch as per site requirement with the instruction of EI with following Specification GI pipe 2" dia 10 SWG 5" long 2nos MS clams with nuts & bolts	Per No.	4742.3376	18370.283	
123	Manufacturing providing & fixing GI single Arm double arch as per site requirement with the instruction of EI with following Specification GI pipe 2" dia 10 SWG 7" long 2nos MS clams with nuts & bolts	Per No.	4742.3376	23155.115	
124	Manufacturing providing & fixing GI single Arm double arch as per site requirement with the instruction of EI with following Specification GI pipe 2" dia 10 SWG 7" long 2nos MS clams with nuts & bolts	Per No.	4742.3376	23155.12	
125	Manufacturing providing & fixing GI double Arm canopy type with the help Of hydraulic care & mannual labour as per site requirement instruction of EI with the Following Specification GI pipe 2" dia 10 SWG 5" long 2nos MS clams with nuts & bolts	Per No.	4742.3376	30685.02	
126	Manufacturing providing & fixing GI double Arm canopy type with the help Of hydraulic care & mannual labour as per site requirement instruction of EI with the Following Specification GI pipe 2" dia 10 SWG 7" long 2nos MS clams with nuts & bolts	Per No.	4742.3376	36093.23	
127	Manufacturing providing & fixing GI double Arm double arch as per site requirement with the helpor hydrulic crane instruction of EI with the following Specification GI pipe 2" dia 10 SWG 5" long 2nos MS clams with nuts & bolts	Per No.	4742.3376	40395.0845	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
128	Manufacturing providing & fixing GI double Arm double arch as per site requirement with the help of hydraulic crane instruction of EI with the following Specification GI pipe 2" dia 10 SWG 5" long 2nos MS clams with nuts & bolts	Per No.	4742.3376	18543.2285	
129	Manufacturing providing & fixing angle iron Bracket in hexagonal shape to accommodate 5 to 6 no's flood lights fitting 250 watta/ 400 watts with the following specification as per site requirement & instruction of EI Angle iron 1.5" dia Length 1.75ft x 1.75ft with supporting angles canopy 5" dia 1 ft long with nuts Over all dia 8ft	Per No.	4742.34	21085.64	
130	Manufacturing providing & fixing angle iron Bracket in polygonal shape to accommodate 8 to 12 no's flood lights fitting 250 watta/ 400 watts with the following specification as per site requirement & instruction of EI Angle iron 2" dia Length 1.75ft x 1.75ft x 1.75ft with supporting angles canopy 5" dia 1 ft long with nuts Over all dia 8ft	Per No.	4742.34	125144.46	
131	Manufacturing providing & fixing angle iron Bracket in hexagonal shape to accommodate 6 no's street lights fitting 250 watts/400 watts with following specification as per site requirement & instruction of EI GI pipe 2" dia Length 3 ft 6 no's canopy 5" dia 1 ft long with nuts Over all dia 18 ft.	Per No.	4742.34	10040.21	
132	Providing & fixing junction box as per following specification Size of box 10" x 8" x 5" MS plate size 16 SWG thick Clamp with nuts & bolts Cover plate with screw Painting two coats of rust preventive red oxide & two coats of ICI oil paint as per site requirement & instruction of EI	Per No.	1792.02	4810.62	
133	Providing & fixing junction box as per following specification Size of box 8" x 6" X 4" MS plate size 16 SWG thick Clamp with nuts & bolts Cover plate with screw Painting two coats of rust preventive red oxide & two coats of ICI oil paint as per site requirement & instruction of EI	Per No.	1792.02	4342.62	
134	Providing & fixing street lights 125 watts (HPMV) having IP54 classification with 125w lamp, choke, capacitor & internal wiring complete in all respect at the height up 31 ft as per site requirement and instruction of EI. Make of the above light is as follow	Per No.	1792.02	16082.23	
135	Providing & fixing street lights 250 watts (HPMV) having IP54 classification with 250w lamp, choke, capacitor & internal wiring complete in all respect at the height up 31 ft as per site requirement and instruction of EI. Make of the above light is as follow	Per No.	3323.66	18666.87	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
136	Providing & fixing street lights 250 watts (SON) having IP54 classification with 250w lamp, choke, capacitor & internal wiring complete in all respect at the height up 31 ft as per site requirement and instruction of EI. Make of the above light is as follow	Per No.	3323.66	18900.87	
137	Providing & fixing street lights 250 watts (SON-T) having IP65 classification with 250w lamp, choke, capacitor & internal wiring complete in all respect at the height up with the help of hydraulic crane as per site requirement and instruction of EI	Per No.	3323.66	19076.37	
138	Providing & fixing street lights 250 watts (SON-T) having IP66 classification with 250w lamp, choke, capacitor & internal wiring complete in all respect at the height up with the help of hydraulic crane as per site requirement and instruction of EI	Per No.	3323.66	19076.37	
139	Providing & fixing of flood lights 250 watts (SON-T) having IP65 classification with 250w lamp, choke, capacitor & internal wiring complete in all respect at the height upto 40ft with the help hydraulic crane as per site requirement and instruction of EI	Per No.	6867.88	22620.59	
140	Providing & fixing of flood lights 250 watts (HPIT) having IP65 classification with 250w lamp, choke, capacitor & internal wiring complete in all respect at the height upto 40ft with the help hydraulic crane and mannual labour as per site requirement and instruction of EI	Per No.	6867.88	25136.26	
141	Providing & fixing of flood lights 400 watts (SON) having IP65 classification with 400w lamp, choke, capacitor, igniter & internal wiring complete in all respect at the height upto 40ft with the help hydraulic crane and mannual labour as per site requirement and instruction of EI	Per No.	6867.88	26130.59	
142	Providing & fixing of flood lights 400 watts (HPIT) having IP65 classification with 400w lamp, choke, capacitor, igniter & internal wiring complete in all respect at the height upto 40ft with the help hydraulic crane and mannual labour as per site requirement and instruction of EI	Per No.	6867.88	26481.59	
143	Providing & fixing of flood lights 400 watts (SON-T) having IP66 classification with 400w lamp, choke, capacitor & internal wiring complete in all respect at the height upto 40ft with the help of hydraulic crane and mannual labour as per site requirement and instruction of EI	Per No.	6867.88	12383.09	
144	Providing & fixing of street light 2000 watts (HPIT) having 2000w lamp, choke, capacitor, igniter & internal wiring complete in all respect at the height upto 40ft with the help of hydraulic crane and mannual labour as per site requirement and instruction of EI	Per No.	6867.88	229222.70	
145	Providing & fixing 125 watts (HPMV) lamp @ the height as per site requirement & instruction of engineer in charge	Per No.	3323.66	7062.05	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
146	Providing & fixing 250 watts (HPMV) lamp @ the height as per site requirement & instruction of engineer in charge	Per No.	3323.66	7606.05	
147	Providing & fixing 125 watts (HPMV) chowk @ the height as per site requirement & instruction of engineer in charge	Per No.	3323.66	5900.90	
148	Providing & fixing 250 watts (HPMV) chowk @ the height as per site requirement & instruction of engineer in charge	Per No.	3323.66	7070.90	
149	Providing & fixing 250 watts (SON) lamp @ the height as per site requirement & instruction of engineer in charge	Per No.	3323.66	6611.55	
150	Providing & fixing 250 watts (SON-T) lamp @ the height with the help of hydraulic crane as per site requirement & instruction of engineer in charge	Per No.	3323.66	6611.55	
151	Providing & fixing 250 watts (SON-T) chowk @ the height with the help of hydraulic crane as per site requirement & instruction of engineer in charge	Per No.	3323.66	5900.90	
152	Providing & fixing 250 watts (SON) capacitor in all respect at the height up to 40 ft with the help of hydraulic crane & manual labour as per site requirement & instruction of engineer in charge	Per No.	1661.83	2991.40	
153	Providing & fixing 250 watts (SON) ignitor in all respect at the height up to 40ft with the help of hydraulic crane & manual labour as per site requirement and instruction of EI	Per No.	1661.83	2628.70	
154	Providing & fixing 400 watts (SON-T) lamp @ the height with the help of hydraulic crane & manual labour as per site requirement and instruction of engineer in charges	Per No.	1661.83	6113.36	
155	Providing & fixing 400 watts (SON-T) chowk lamp @ the height with the help of hydraulic crane as per site requirement and instruction of engineer in charges	Per No.	3323.66	7744.37	
156	Providing & fixing 400 watts (SON) ignitor in all respect at the height up to 40 ft with the help of hydraulic crane & manual labour as per requirement and instruction of EI	Per No.	1661.83	2628.70	
157	Providing & fixing 250 watts (SON) capacitor in all respect at the height up to 40ft with the help of hydraulic crane & manual labour as per site requirement and instruction of EI	Per No.	3323.66	3862.31	
158	Providing & fixing 250 watts (HPIT) lamp @ the height with the help of hydraulic crane as per site requirement & instruction of engineer in charge	Per No.	3323.66	9560.14	
159	Providing & fixing 250 watts (HPIT) chowk @ the height with the help of hydraulic crane as per site requirement & instruction of engineer in charge	Per No.	3323.66	11435.89	
160	Providing & fixing 440 watts (HPIT) lamp @ the height with the help of hydraulic crane as per site requirement & instruction of engineer in charge	Per No.	3323.66	9525.04	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
161	Providing & fixing 440 watts (HPIT) chowk @ the height with the help of hydraulic crane as per site requirement & instruction of engineer incharge	Per No.	3323.66	13536.27	
162	Providing & fixing acrylic cover for 125 watts light @ as per site requirement & instruction of engineer in charge	Per No.	1661.83	2692.37	
163	Providing & fixing acrylic cover for 250 watts light @ as per site requirement & instruction of engineer in charge	Per No.	1661.83	2926.83	
164	Providing & fixing acrylic cover for 125 watts light @ as per site requirement & instruction of engineer in charge	Per No.	1107.89	1484.16	
165	Providing & fixing holder for 250/400 light @ as per site requirement & instruction of engineer in charge	Per No.	1107.89	1871.66	
166	Providing & fixing lamp for 2000 (HPIT) watts light @ as per site requirement & instruction of engineer in charge	Per No.	3323.66	115390.85	
167	Providing & fixing lamp for 2000 (HPIT) watts light @ as per site requirement & instruction of engineer in charge	Per No.	3323.66	84142.03	
168	Providing & fixing lamp for 2000 (HPIT) watts light @ as per site requirement & instruction of engineer in charge	Per No.	3323.66	9449.28	
169	Providing & fixing DP I/C change over switch 500volts 15amp on a prepared board	Per No.	737.58	4735.47	
170	Providing & fixing DP I/C change over switch 500volts 30amp on a prepared board	Per No.	737.58	14358.72	
171	Providing & fixing DP I/C change over switch 500volts 60amp on a prepared board	Per No.	737.58	27761.07	
172	Providing & fixing DP I/C change over switch 500volts 100amp on a prepared board	Per No.	921.97	34291.54	
173	Providing & fixing DP I/C change over switch 500volts 200amp on a prepared board	Per No.	1229.30	64697.12	
174	Providing & fixing DP I/C change over switch 500volts 300amp on a prepared board	Per No.	1229.30	56343.32	
175	Providing & fixing DP I/C change over switch 500volts 400amp on a prepared board	Per No.	1229.30	107337.77	
176	Providing & fixing DP I/C change over switch 500volts 500amp on a prepared board	Per No.	1843.95	125236.83	
177	Providing & fixing DP I/C change over switch 500volts 600amp on a prepared board	Per No.	1843.95	143722.83	
178	Providing & fixing circuit breaker 6, 10, 15, 20,30,40,50&63 SP (TB-5S)on prepared board as required	Per No.	491.72	2504.12	
179	Providing & fixing circuit breaker 6, 10, 15, 20,30,40,50 & 63 DP (TB-5S)on prepared board as required	Per No.	491.72	5528.57	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
180	Providing & fixing circuit breaker 3, 5, 10 , 15, 20 & 30 TP(XS-30NS[NB]) on prepared board as required	Per No.	737.58	24728.43	
181	Providing & fixing circuit breaker 15,20,30 , 40, 50 & 60amp TP(XE-100cs[CB]) on prepared board as required	Per No.	737.58	26103.18	
182	Providing & fixing circuit breaker 125,150,200,&225amp TP(XS-225NS) on prepared board as required	Per No.	1217.76	43010.16	
183	Providing & fixing circuit breaker 15,20,30 , 40, 50, 60,75 &100amp TP (XS-100NS) on prepared board as required	Per No.	1217.76	28736.16	
184	Providing & fixing circuit breaker 250amp TP setting 160-250amp(XS-250NJ) on prepared board as required	Per No.	1217.76	95894.16	
185	Providing & fixing circuit breaker 400amp TP setting 250-400amp(XS-400CJ) on prepared board as required	Per No.	1856.37	272032.77	
186	Providing & fixing circuit breaker 630amp TP setting 400-600amp(XS-630CJ) on prepared board as required	Per No.	1856.37	330977.37	
187	Providing & fixing circuit breaker 800amp TP setting 500-800amp(XS-800NJ) on prepared board as required	Per No.	1856.37	530462.37	
A. <u>FLUSH TYPE SWITCHES</u>					
188	Providing & fixing one way SP 10/15amp switch surface type	Per No.	230.68	468.19	
189	Providing & fixing Two pin 10/15amp plug & socket	Per No.	384.47	617.69	
190	Providing & fixing three pin 10/15amp plug & socket flush type	Per No.	384.47	677.36	
B. <u>CEILING ROSE</u>					
191	Providing & fixing Bakelite ceiling rose with two terminals	Per No.	245.86	373.39	
192	Providing & fixing Brass pendant lamp holder	Per No.	245.86	1205.26	
193	Providing & fixing Brass Battern holder	Per No.	245.86	1152.61	
C. <u>FAN</u>					
194	Providing & fixing A.C Electric Ceiling fan 48" (good quality)	Per No.	737.58	12191.88	
195	Providing & fixing A.C Electric Ceiling fan 56" (good quality)	Per No.	1376.19	14869.21	
196	Providing & fixing A.C Electric Wall Bracket fan 18" (good quality)	Per No.	737.58	11606.88	
197	Jointing work of 10mm/16mm unarmoured cable with complete jointing kit (RAYCHEM) excavation in hard/soft soil 3ft deep & 1.5ft wide etc complete in all respect as per site requirement & instruction of EI	Per Job	2108.88	6395.76	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
198	Jointing work of 25mm/35mm unarmoured cable with complete jointing kit (RAYCHEM) excavation in hard/soft soil 3ft deep & 1.5ft wide etc complete in all respect as per site requirement & instruction of EI	Per Job	2108.88	7097.76	
199	Jointing work of 50mm unarmoured cable with complete jointing kit (RAYCHEM) excavation in hard/soft soil 3ft deep & 1.5ft wide etc complete in all respect as per site requirement & instruction of EI	Per Job	2108.88	7097.76	
200	Jointing work of 10mm/16mm armoured cable with complete jointing kit (RAYCHEM) excavation in hard/soft soil 3ft deep & 1.5ft wide etc complete in all respect as per site requirement & instruction of EI	Per Job	2108.88	6395.76	
201	Jointing work of 25mm/35mm armoured cable with complete jointing kit (RAYCHEM) excavation in hard/soft soil 3ft deep & 1.5ft wide etc complete in all respect as per site requirement & instruction of EI	Per Job	2108.88	7097.76	
202	Jointing work of 50 armoured cable with complete jointing kit (RAYCHEM) excavation in hard/soft soil 3ft deep & 1.5ft wide etc complete in all respect as per site requirement & instruction of EI	Per Job	2108.88	7097.76	
203	Providing & fixing 4 no's copper crimping ferule for 10mm armoured/unarmoured cable jointing with puching tool, skilled labour taping with heat shrinkable tube & proper termination, excavation in hard/soft soil 3ft deep & 1.5 ft wide etc complete in all respect as per site requirement & insturction of EI	Per Job	2108.88	5109.69	
204	Providing & fixing 4 no's copper crimping ferule for 16mm armoured/unarmoured cable jointing with puching tool, skilled labour taping with heat shrinkable tube & proper termination, excavation in hard/soft soil 3ft deep & 1.5 ft wide etc complete in all respect as per site requirement & insturction of EI	Per Job	2108.88	5135.43	
205	Providing & fixing 4 no's copper crimping ferule for 25mm armoured/unarmoured cable jointing with puching tool, skilled labour taping with heat shrinkable tube & proper termination, excavation in hard/soft soil 3ft deep & 1.5 ft wide etc complete in all respect as per site requirement & insturction of EI	Per Job	2108.88	5207.97	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
206	Providing & fixing 4 no's copper crimping ferule for 35mm armoured/unarmoured cable jointing with puching tool, skilled labour taping with heat shrinkable tube & proper termination, excavation in hard/soft soil 3ft deep & 1.5 ft wide etc complete in all respect as per site requirement & insturction of EI	Per Job	2108.88	5250.09	
207	Providing & fixing 4 no's copper crimping ferule for 50mm armoured/unarmoured cable jointing with puching tool, skilled labour taping with heat shrinkable tube & proper termination, excavation in hard/soft soil 3ft deep & 1.5 ft wide etc complete in all respect as per site requirement & insturction of EI	Per Job	2108.88	5425.59	
208	Providing & fixing Magnetic Contractor FC20N as preured & as per instruction of EI	Per Job	1475.16	6984.69	
209	Providing & fixing Magnetic Contractor FC35N as preured & as per instruction of EI	Per Job	1475.16	14589.69	
210	Providing & fixing Magnetic Contractor FC50N as preured & as per instruction of EI	Per Job	1475.16	14589.69	
211	Providing & fixing Magnetic Contractor FC65N (100 A)as preured & as per instruction of EI	Per Job	1475.16	14589.69	
212	Providing & fixing Magnetic Contractor FC80N as preured & as per instruction of EI	Per Job	1475.16	14589.69	
213	Providing & fixing Magnetic Contractor FC125N as preured & as per instruction of EI	Per Job	1475.16	94910.19	
214	Providing & fixing Magnetic Contractor FC130N as preured & as per instruction of EI	Per Job	1475.16	13592.85	
215	Providing & fixing Magnetic Contractor FC160N as preured & as per instruction of EI	Per Job	1475.16	13592.85	
216	Providing & fixing Overload Relays for size 0.5.0.5A, 0.75, 1.5 & 1.5A model FT20 as per required & as per insturction of EI	Per Job	737.58	5297.37	
217	Providing & fixing Overload Relays for size 1.51.5A, 2 & 2A/2B model FT20 as per required & as per insturction of EI	Per Job	737.58	16938.87	
218	Providing & fixing Overload Relays for size 2,2A/B,2.5, 3, 4 & 4A model FT65 as per required & as per insturction of EI	Per Job	737.58	10404.42	
219	Providing & fixing Overload Relays for size 4,4A/5,& 6 model FT65 as per required & as per insturction of EI	Per Job	737.58	10404.42	
220	Providing & fixing Overload Relays for size 4A, 5 & 6 model FT85 as per required & as per insturction of EI	Per Job	737.58	37647.87	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
221	Providing & fixing Overload Relays for size 6, 7, 8, 8A & 116 model FT90 as per required & as per instruction of EI	Per Job	737.58	16628.82	
222	Providing & fixing Overload Relays for size 11 & above model FT300 as per required & as per instruction of EI	Per Job	1475.16	39443.33	
223	Providing & fixing Current Transformer rating 30/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	6295.56	
224	Providing & fixing Current Transformer rating 60/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	6295.56	
225	Providing & fixing Current Transformer rating 100/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	6295.56	
226	Providing & fixing Current Transformer rating 150/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	6901.03	
227	Providing & fixing Current Transformer rating 200/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	6924.43	
228	Providing & fixing Current Transformer rating 300/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	7415.83	
229	Providing & fixing Current Transformer rating 400/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	7526.98	
230	Providing & fixing Current Transformer rating 600/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	9381.43	
231	Providing & fixing Current Transformer rating 800/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	11408.46	
232	Providing & fixing Current Transformer rating 1000/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	7744.02	
233	Providing & fixing Current Transformer rating 1200/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	8099.70	
234	Providing & fixing Current Transformer rating 1600/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	10615.20	
235	Providing & fixing Current Transformer rating 2000/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	11502.06	
236	Providing & fixing Current Transformer rating 2500/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	13578.81	
237	Providing & fixing Current Transformer rating 3000/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	16899.27	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
238	Providing & fixing Current Transformer rating 4000/5amp (round) RLC-30 as required & as per instruction of EI	Each	1475.16	19754.07	
A. <u>AMPERE METER</u>					
239	Providing & fixing ammeters size 96/96mm Direct 15A, 30A, 50A, 60A & 100A as required & as per instruction of EI	Per No.	1475.1594	4186.5003	
B. <u>VOLT METER</u>					
240	Providing & fixing voltmeter size 96/96mm 500volt as required & as per instruction of EI	Per No.	1475.16	4186.50	
C. <u>PHOTO CELL</u>					
241	P/F 3 Amps Photo cell (National japan) after removing of existing burt/damage/old photo cell after disconnection of main pover wupply & reconnection the same after fixing of photo cell as required as per instruction of EI	Per No.	1475.1594	2168.2503	
242	P/F 10 Amps Photo cell (National japan) after removing of existing burt/damage/old photo cell after disconnection of main pover wupply & reconnection the same after fixing of photo cell as required as per instruction of EI	Per No.	1475.1594	2226.7503	
D. <u>TIMER</u>					
243	P/F Timer500 hours power backup (national) after removing of existing burnt/damage/old timer after disconnection of main power supply & reconnection the same after fixing the timer as required as per insturction of EI	Per No.	1475.1594	22058.25	
E. <u>COIL FOR MAGNETIC CONTRACT</u>					
244	P/F coil FC.10N, FC.15N, AND FC.18N & FC.20N after removing of existing burnt/damage/old timer after disconnection of main power supply & reconnection the same after fixing the timer as required as per insturction of EI	Per No.	1475.16	6984.69	
245	P/F coil FC.35N after removing of existing burnt/damage/old coil after disconnection of main power supply & reconnection the same after fixing the coil as required as per insturction of EI	Per No.	1475.16	14589.69	
246	P/F coil FC.30,35,50N after removing of existing burnt/damage/old coil after disconnection of main power supply & reconnection the same after fixing the coil as required as per insturction of EI	Per No.	1475.16	14589.69	
247	P/F coil FC.65N, FC 65NS & FC.80N after removing of existing burnt/damage/old coil after disconnection of main power supply & reconnection the same after fixing the coil as required as per insturction of EI	Per No.	1475.16	14589.69	

S.NO.	DESCRIPTION	Unit	Rate (Rs.)		Remarks
			Labour	Composite	
248	Providing & fixing channel patti 1/2" as required as per instruction of EI	Per Rft.	63.04	231.01	
249	Providing & fixing channel patti 3/4" as required as per instruction of EI	Per Rft.	63.04	239.61	
250	Providing & fixing channel patti 1" as required as per instruction of EI	Per Rft.	63.04	269.09	
251	Providing & fixing channel patti 2" as required as per instruction of EI	Per Rft.	63.04	492.68	
252	Providing & fixing earthing set (1'x1') copper plet i/c excavation of rock earth 12' depth or if water comes out i/c salt/choracale mixed with G.I pipe with nut bolt testing topping etc complete.	Per Job.	7376	30191	