



Report - Workshop on Market Based Cost Estimation & Quantity Analysis

NAME OF ACTIVITY: - Workshop on Market Based Cost Estimation & Quantity Analysis

DATE & DURATION: May 20-22, 2024

ORGANIZED BY: Department of Civil Engineering

RESOURCE PERSON: Mr. Prateek Sharma

DATE: 20/05/2024 to 22/05/2024

OUTCOMES:

CO1: Gain hands-on experience in using modern tools and techniques essential for civil engineering applications.

CO2: Understand the importance of sustainability in civil engineering practices and its impact on the environment.

CO3: Develop the ability to work collaboratively in a team to execute engineering tasks and communicate findings effectively.

MAPPING OF COs WITH POs AND PSOs:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	3	-	-	-	-	-	-	-	3	-	-
CO2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	3
CO3	-	-	-	-	-	-	-	-	3	-	-	-	-	2	-

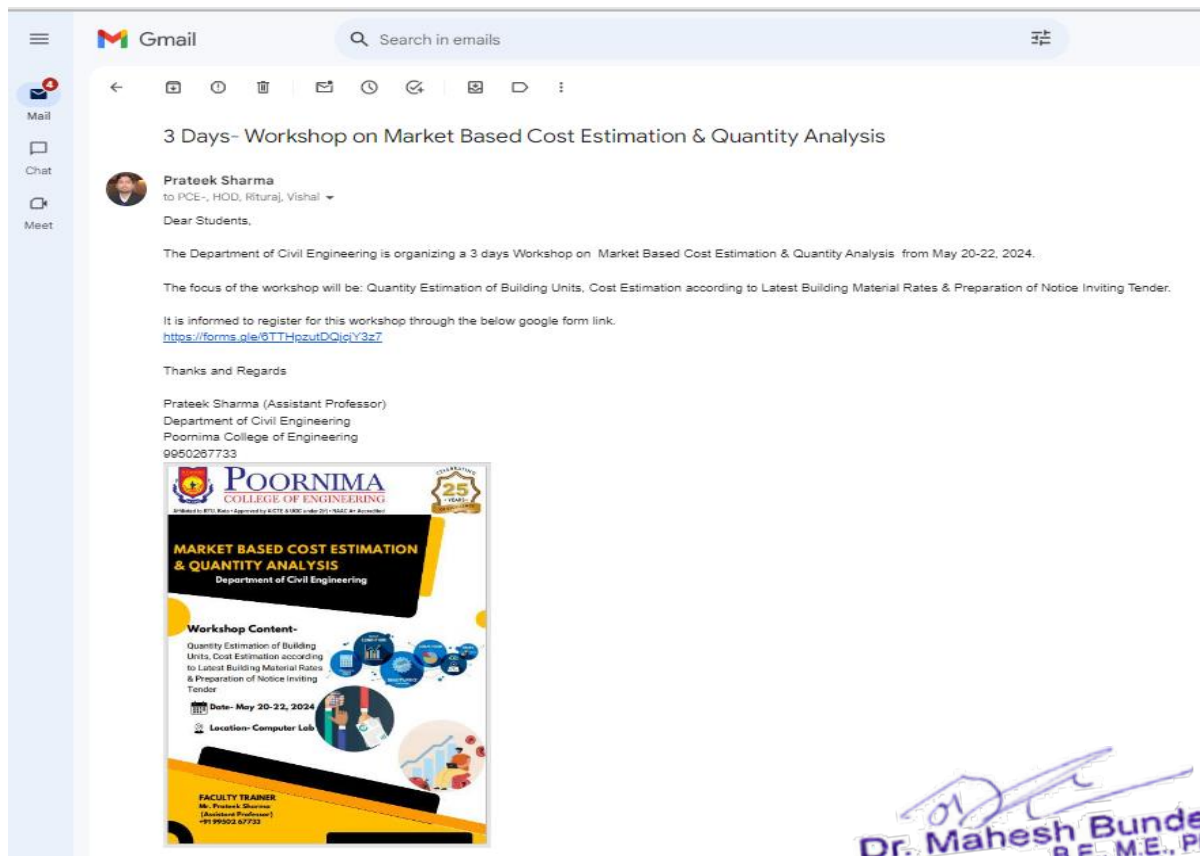
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OBJECTIVE:

The objective of a workshop on Market Based Cost Estimation & Quantity Analysis could be multifaceted:

1. **Skill Development:** The primary goal might be to enhance participants' skills in utilizing market-based data for cost estimation and quantity analysis in various projects or industries.
2. **Understanding Market Dynamics:** Participants may learn how market dynamics influence cost estimation and quantity analysis, including factors such as supply and demand fluctuations, inflation rates, and market trends.
3. **Effective Resource Management:** Another objective could be to teach participants how to effectively manage resources by accurately estimating costs and quantities, thus ensuring project efficiency and profitability.
4. **Risk Mitigation:** By understanding market-based cost estimation, participants may learn strategies to mitigate risks associated with inaccurate estimations, such as budget overruns or resource shortages.
5. **Industry Best Practices:** The workshop might aim to impart industry best practices in cost estimation and quantity analysis, drawing on real-world examples and case studies to illustrate effective approaches.

CIRCULAR:



The image shows a screenshot of a Gmail email interface. The email is from Prateek Sharma to PCE-, HOD, Rituraj, Vishal. The subject is "3 Days- Workshop on Market Based Cost Estimation & Quantity Analysis". The email body contains the following text:

Dear Students,

The Department of Civil Engineering is organizing a 3 days Workshop on Market Based Cost Estimation & Quantity Analysis from May 20-22, 2024.

The focus of the workshop will be: Quantity Estimation of Building Units, Cost Estimation according to Latest Building Material Rates & Preparation of Notice Inviting Tender.

It is informed to register for this workshop through the below google form link:
<https://forms.gle/9TTHQzudDQlgY3z7>

Thanks and Regards

Prateek Sharma (Assistant Professor)
Department of Civil Engineering
Poornima College of Engineering
9950267733

Below the email text is a poster for the workshop. The poster is titled "MARKET BASED COST ESTIMATION & QUANTITY ANALYSIS" and is organized by the Department of Civil Engineering at Poornima College of Engineering. The poster includes the following information:

- Workshop Content-** Quantity Estimation of Building Units, Cost Estimation according to Latest Building Material Rates & Preparation of Notice Inviting Tender.
- Date-** May 20-22, 2024
- Location-** Computer Lab
- FACULTY TRAINER** Mr. Prateek Sharma (Assistant Professor) 9950267733

At the bottom right of the poster, there is a signature and stamp of Dr. Mahesh Bundale, B.E., M.E., Ph.D., Director of Poornima College of Engineering, 131-B, RICO Institutional Area, Sitapura, JAIPUR.

Google Form for Registration:

3 Days - Workshop on Market Based Cost Estimation & Quantity Analysis, 20-22 May 2024

Register for this workshop

2021pcecedevanshi010@poornima.org [Switch accounts](#)



* Indicates required question

Email *

☐

Record 2021pcecedevanshi010@poornima.org as the email to be included with my response

Name

Your answer


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BROCHURE:

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MARKET BASED COST ESTIMATION & QUANTITY ANALYSIS

Department of Civil Engineering

Workshop Content-

Quantity Estimation of Building Units, Cost Estimation according to Latest Building Material Rates & Preparation of Notice Inviting Tender

Date- May 20-22, 2024

Location- Computer Lab

FACULTY TRAINER
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The brochure features a central diagram with icons for Market Condition, Competition, Brand, Place, Quality/Price, and Cost. It also includes illustrations of hands holding a calculator and a document, and a person working on a laptop with a bar chart in the background.

INTRODUCTION:

The workshop on Market Based Cost Estimation & Quantity Analysis provided a comprehensive platform for professionals to delve into the intricacies of utilizing market data to enhance cost estimation and quantity analysis processes. With a focus on practical applications and industry insights, the workshop aimed to equip participants with the necessary tools and strategies to navigate the dynamic landscape of project management effectively.

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Throughout the workshop, participants engaged in interactive sessions, case studies, and discussions led by industry experts. The agenda encompassed various aspects, including understanding market dynamics, leveraging market-based data for accurate estimations, and

optimizing resource allocation strategies. By blending theoretical concepts with real-world examples, the workshop fostered a holistic understanding of the subject matter, empowering attendees to make informed decisions and mitigate risks associated with cost overruns and resource shortages.

This report provides a comprehensive overview of the workshop proceedings, highlighting key insights, learnings, and recommendations gathered from the collective expertise and experiences shared during the sessions. It aims to serve as a valuable resource for professionals seeking to enhance their proficiency in market-based cost estimation and quantity analysis, ultimately contributing to improved project outcomes and organizational success.

Session Overview:

Date	Day	Topics Covered
20/05/2024	Monday	<ul style="list-style-type: none">• Notice inviting Tender
21/05/2024	Tuesday	<ul style="list-style-type: none">• Latest Rates of Building material of different companies.
22/05/2024	Wednesday	<ul style="list-style-type: none">• Measurement of Quantities and determination of cost by B.S.R


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Day: 1

DATE: 20/05/2024, (Monday)

Notice Inviting Tender

Notice Inviting Tender is published by the companies/organizations to get biddings from the contractors for their works. Notice Inviting Tender or NIT means this document and its annexures, any corrigendum, addendum, and any other documents provided along with this NIT or issued during the selection of Bidder, seeking a set of solution(s), services(s), materials and/or any combination of them.

Importance on Notice Inviting Tender,

A notice inviting tender (NIT) plays a crucial role in the procurement process, especially in government or large organization contracts. Here's why it's important:

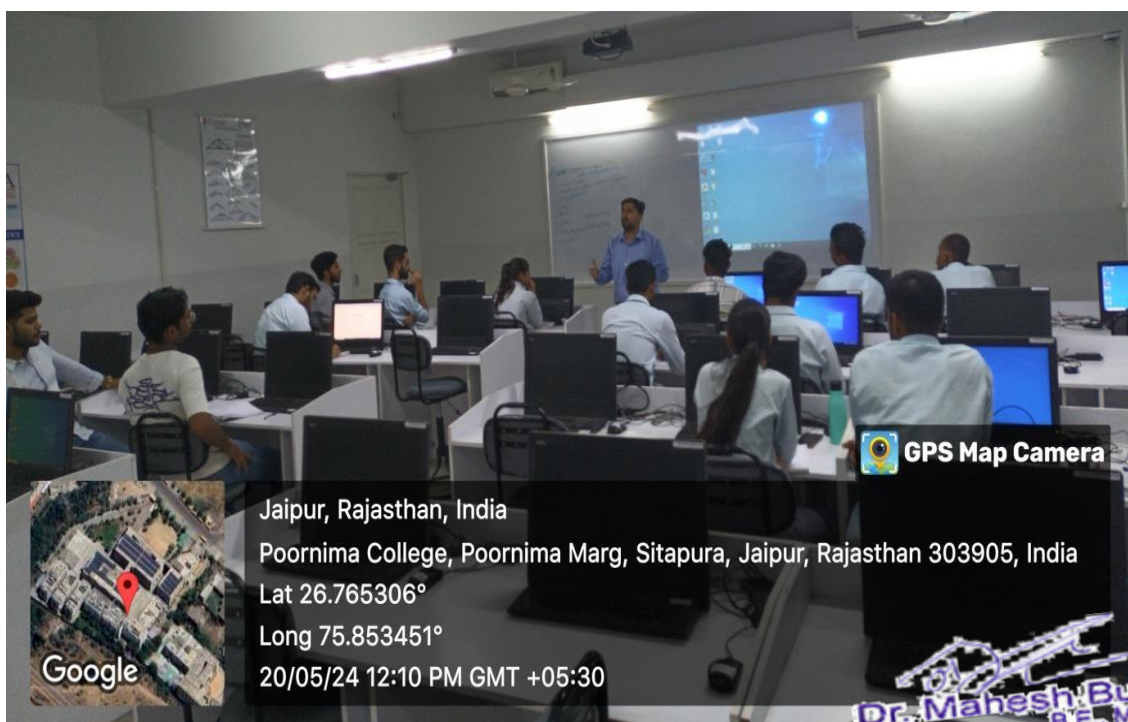
1. **Transparency:** NIT ensures transparency in the procurement process by publicly announcing the requirement of goods or services and inviting interested parties to bid. This transparency helps build trust among stakeholders and reduces the likelihood of corruption or favoritism.
2. **Fair Competition:** By issuing an NIT, organizations open the opportunity for a wide range of suppliers or contractors to compete for the contract. This fosters fair competition, which can lead to better quality goods or services at competitive prices.
3. **Legal Compliance:** In many jurisdictions, especially in government contracts, issuing an NIT is a legal requirement to ensure compliance with procurement laws and regulations. Failure to follow the prescribed tendering procedures can lead to legal consequences and challenges to the procurement process.
4. **Maximizing Value for Money:** Through the competitive bidding process facilitated by the NIT, organizations can maximize the value they receive for the resources expended. Suppliers or contractors are motivated to offer their best possible terms, driving down costs while maintaining quality.
5. **Quality Assurance:** NITs typically include detailed specifications and requirements for the goods or services being procured. This ensures that bidders understand the expectations and standards they need to meet, promoting quality assurance in the final deliverables.
6. **Accountability:** Issuing an NIT creates a documented trail of the procurement process, including the criteria used for selecting the winning bid. This accountability helps


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stakeholders understand the decision-making process and holds the procuring entity accountable for its choices.

7. Efficiency: While issuing an NIT may seem like an additional step in the procurement process, it ultimately contributes to efficiency by attracting qualified suppliers or contractors who are capable of meeting the organization's needs. This reduces the likelihood of delays or disruptions in project delivery.

PHOTOGRAPHS:



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Day: 2

DATE: 21/05/2024, (Tuesday)

• Latest Rates of building material of different Companies

Cement

Cement is the most widely used building material in the construction industry. Cement is a fine powder from limestone, clay, and other materials. Cement acts as a binding agent when mixed with water, sand, and Aggregate to form Concrete. The average price of cement ranges from Rs 320 to RS 450 per bag of 50 kg, and the approximate consumption of cement is 0.4 bags or 20kg per sqft of built-up area.

Cement Company Name	Price Range (min to max) per bag
JK SUPER Cement	₹ 320 to ₹ 358/-Bag
ULTRA-TECH Cement	₹ 360 to ₹ 435/-Bag
AMBUJA Cement	₹ 330 to ₹ 410/-Bag
DALMIA Cement	₹ 345 to ₹ 380/-Bag
JAYPEE Cement	₹ 316 to ₹ 321/-Bag
ACC Cement	₹ 358 to ₹ 378/-Bag
BIRLA A1 Cement	₹ 340 to ₹ 360/-Bag
JK LAKSHMI Cement	₹ 355 to ₹ 410/-Bag
CHETTINAD Cement	₹ 330 to ₹ 400/-Bag
PENNA Cement	₹ 325 to ₹ 360/-Bag
ZUARI Cement	₹ 330 to ₹ 400/-Bag
RAMCO Cement	₹ 360 to ₹ 400/-Bag
JK White Cement	₹ 850 to ₹ 870/-Bag

Type of Cement	Cement Price Range	Cement & Sand	MIN. RATE	Average Cost	Max. Price
OPC Cement 43 Grade	₹ 350 to ₹ 390/-	Cement	₹ 425	₹ 467.5	₹ 510
OPC Cement 53 Grade	₹ 410 to ₹ 435/-	M Sand	₹ 3900	₹ 4290	₹ 468
PPC Cement Grade	₹ 316 to ₹ 330/-	River Sand	₹ 5500	₹ 6050	₹ 6600


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Ready Mix Concrete

Ready Mix Concrete is prepared in a factory using a standardized recipe and process. It differs from traditional Concrete, made on-site by mixing cement, sand, aggregates, and water. RMC is used for manufacturing Concrete above M20 grade of Concrete. It is used if the Concrete cannot be made at the site. The average price of RMC ranges between Rs 3000 to Rs 7500.


Grade Of Concrete	Min. RMC Price/cum.	Max. RMC Price/cum.
M15	₹ 3800	₹ 3900
M20	₹ 3900	₹ 4200
M25	₹ 4200	₹ 4400
M30	₹ 4500	₹ 4850
M35	₹ 4800	₹ 5200

Sand & Aggregate

Sand is mixed with Cement and Aggregate in Concrete to provide bulk and strength to the concrete structure. Sand is a fine particle of broken rock that comes in different types. The average price of sand ranges between Rs 1600 to Rs 3300 per tonne, and the approximate consumption of sand in the building is around 1.8 cubic feet per sqft of built-up area.

Sand price per ton and sand price per kg is shown in the table below.

Types of sand	Weight of Bag	Min. Sand Price	Max. Sand Price
Black Sand	35 kg	₹ 70	₹ 80
Brown Sand	40 kg	₹ 90	₹ 95
Quartz Sand	35 kg	₹ 70	₹ 80
Black Sand	1 Brass	₹ 6500	₹ 7000
Brown Sand	1 Brass	₹ 8500	₹ 9000
River Sand	1 Ton	₹ 1500	₹ 3200
Quarry Dust	2 Ton	₹ 750	₹ 850
Concrete M Sand	3 Ton	₹ 850	₹ 920
Plaster M Sand	4 Ton	₹ 1300	₹ 1400
Masonry M Sand	5 Ton	₹ 750	₹ 950
Khadi 1 no.	30 kg	₹ 45	₹ 50
Khadi 2 no.	30 kg	₹ 45	₹ 50


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The building material pricelist for coarse Aggregate of 10mm, 12mm, 20mm, and 40mm are shown below. 20mm aggregate price is Rs. 800 per Tonne. You can find the detail of all aggregate prices in the table below.

Aggregate Thickness	Min. Agg. Price per Cuft	Max. Agg. Price per Cuft	Min. Agg. Price per Ton	Max. Agg. Price per Ton
10mm	₹ 68	₹ 78	₹ 625	₹ 800
12mm	₹ 68	₹ 78	₹ 625	₹ 800
20mm	₹ 68	₹ 78	₹ 625	₹ 800
40mm	₹ 68	₹ 78	₹ 625	₹ 800

Steel Bars

Steel is an iron and carbon alloy with small amounts of other elements such as manganese, chromium, and nickel. Steel is widely used in construction due to its strength, durability, and versatility. The most widely used steel product in construction projects is TMT Bars.

TMT bars bond with the Concrete to form the RCC structure. TMT bars come in different grades according to Indian standards. The average price of TMT Bar ranges between Rs 45 to Rs 55 per kg & approximate steel consumption in the building is around 4 kg per sqft of built-up area. Commonly used grades of TMT bar steel are as follows.

- Fe 415
- Fe 415D
- Fe 500
- Fe 500D
- Fe 550
- Fe 550D
- Fe 600

The minimum and maximum prices of TMT steel bars of different steel companies are shown below. Prices are mentioned in terms of kg and ton.


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Brand Name	Min Price per Kg	Max Price per Kg	Min Price per Ton	Max Price per Ton
Kamdhenu Steel	₹ 42	₹ 51	₹ 42000	₹ 51000
Vizag Steel	₹ 56	₹ 58	₹ 56000	₹ 58000
SAIL Steel	₹ 53	₹ 58	₹ 53000	₹ 58000
Indus Steel	₹ 55	₹ 58	₹ 55000	₹ 58000
Agni Steel	₹ 58	₹ 65	₹ 58000	₹ 65000
Sunvik Steel	₹ 49	₹ 55	₹ 49000	₹ 55000
Tata Steel	₹ 50	₹ 53	₹ 50000	₹ 53000
Jindal Steel	₹ 42.5	₹ 54	₹ 42500	₹ 54000

Steel prices for 8mm dia, 12mm, 16mm, 20mm, and 25mm diameter bars are below. Some popular steel brands like Tata, Kamdhenu steel, and Birla steel bar prices are shown.

TMT Steel Bars(fe-500)	TataTiscon	Kamdhenu	Birla
8 mm	₹ 103,000	₹ 75,700	₹ 95,000
12 mm	₹ 101,800	₹ 74,200	₹ 93,800
16 mm	₹ 101,800	₹ 74,200	₹ 93,800
20 mm	₹ 101,800	₹ 74,200	₹ 93,800
25 mm	₹ 101,800	₹ 74,200	₹ 93,800

Bricks & Blocks

Mostly used types of bricks are as follows.

- First class bricks
- Second class bricks
- Third class bricks
- Fourth class bricks

The rates of bricks for different sizes and materials like red bricks, fly ash bricks, cement blocks, and AAC blocks are shown below:


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Type of Bricks	Min Price	Avg. Price	Max Price
Red Bricks 4"	₹ 5.5	₹ 5.75	₹ 6
Red Bricks 6"	₹ 7	₹ 7.5	₹ 8
Clay Bricks	₹ 11	₹ 12.1	₹ 13.2
AAC Blocks	₹ 39	₹ 42.9	₹ 46.8
Cement Blocks	₹ 27	₹ 29.7	₹ 32.4
Fly Ash Bricks 4"	₹ 6.5	₹ 7	₹ 7.5
Fly Ash Bricks 6"	₹ 7.5	₹ 7.75	₹ 8

The price of AAC Blocks for different sizes are shown below

AAC Block Size	Min Block Price	Max Block Price
3 inch	₹ 40	₹ 45
4 inch	₹ 55	₹ 65
6 inch	₹ 75	₹ 85
8 inch	₹ 95	₹ 105
9 inch	₹ 105	₹ 110
600x200x 75mm	₹ 34	₹ 37
600x200x100mm	₹ 42	₹ 45
600x200x125mm	₹ 44	₹ 47
600x200x150mm	₹ 52	₹ 55
600x200x175mm	₹ 72	₹ 75
600x200x200mm	₹ 77	₹ 80
600x200x230mm	₹ 94	₹ 97
600x200x250mm	₹ 106	₹ 110
600x200x300mm	₹ 125	₹ 130
Solid Concrete Blocks	₹ 30	₹ 35

Tiles

Tiles are primarily used for flooring, wall coverings, countertops, and shower enclosures. Tiles can be made from various materials, such as ceramics, natural stones, and other synthetic materials. Tiles are used because of their durability and easy-to-maintain nature.

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Prices of tiles like wall, floor, ceramic, vitrified, cement, and other tiles are shown below.

Types of Tiles	Unit	Min Tile Price	Max Tile Price
Dado wall Tiles (200 x 300mm)	Pcs	₹ 18	₹ 20
Floor Tiles (300 x 300mm)	Pcs	₹ 20	₹ 35
Floor Tiles (600 x 600mm)	Pcs	₹ 36	₹ 40
Vitrified Tiles (600 x 600mm)	Sqft	₹ 60	₹ 80
Ceramic Tiles	Sqft	₹ 25	₹ 80
Laminated wooden floor	Sqft	₹ 80	₹ 140
Cement Tiles (300 x 300mm)	Sqft	₹ 20	₹ 24
Paver Block (60mm thick)	Sqft	₹ 30	₹ 36

Marbles and granite are quite costly items. Prices of different marble and granites are shown below.

Marble Type	Marble Min Price (Sqft)	Marble Max Price (Sqft)
Amba White Marble	₹ 160	₹ 185
Green Marble	₹ 75	₹ 95
Tandoor Marble	₹ 35	₹ 40
Kadapa Marble	₹ 40	₹ 48
Italian Marble	₹ 290	₹ 560
Shahabad Marble	₹ 20	₹ 25
Kota Stone	₹ 45	₹ 49
Black Granite	₹ 190	₹ 350

Electrical

Electrical appliances such as wires, fitment, switches, sockets, MCBs, fans, and lights are essential for any modern structure. Electrical works cover 3 to 5% of the total material cost. Prices of different essential electrical items are shown below.


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Electrical Items	Min Price	Avg. Price	Max Price
Conduit Pipes	₹ 35	₹ 38.5	₹ 49
Metal Boxes 6 Switches	₹ 54	₹ 59.4	₹ 75.6
Cables and Wires (1 To 6 SQ MM – 90 Meters)	₹ 1000	₹ 1100	₹ 1400
Cables and Wires (1 To 6 SQ MM – 90 Meters) High Range	₹ 5300	₹ 5830	₹ 7420
Switches Lower Range	₹ 22	₹ 24.2	₹ 30.8
Switches High Range	₹ 155	₹ 170.5	₹ 217
Sockets	₹ 35	₹ 38.5	₹ 49
Dimmers	₹ 235	₹ 258.5	₹ 329
MCB	₹ 185	₹ 203.5	₹ 259
Ceiling Fan – Minimum	₹ 1700	₹ 2400	₹ 3200
Exhaust Fan – Minimum	₹ 700	₹ 900	₹ 1200
4 Feet Tube Light	₹ 380	₹ 400	₹ 420

Plumbing

The most common material used in plumbing works is pipes. Plumbing pipes and fittings come in different materials like plastic, GI, and Brass. The following table shows the prices of some of the most popular plumbing pipe types.

Plumbing Items	Min Price	Avg. Price	Max Price
Pipes CPVC	₹ 345	₹ 379.5	₹ 431.25
Pipes UPVC	₹ 250	₹ 275	₹ 312.5
Pipes PVC	₹ 180	₹ 198	₹ 225

Paint

Paint is used for both its functional & Aesthetic benefits. Paint is used to provide a protective layer to the surfaces of a structure. Paint protects the structure from weathering, moisture, and other environmental factors. Paint also protects the surface from damage done by rust and corrosion. The average paint consumption for interior works is 0.14 liters per sq. ft. and 0.4 liters per sqft for exterior paints. **The price of different types of paints is shown below.**


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Type of Paint	Unit	Min Price	Max Price
Paint	ltr	₹ 200	₹ 435
Wall Putty	Kg	₹ 20	₹ 30
White Cement	25kg bag	₹ 400	₹ 500
POP	25kg bag	₹ 200	₹ 250
Lime Powder	Kg	₹ 10	₹ 12

Glass

Glasses are used for structural use as well as for decorative purposes. Glasses are mainly used for window panels and doors. Glass comes in different types and shapes. The prices of different types of Glasses are shown below in the table

Type of Glass	Unit	Min Price	Max Price
Window Glass	sqft	₹ 32	₹ 50
5mm Plane Glass	sqft	₹ 60	₹ 85
6mm Plane Glass	sqft	₹ 85	₹ 95
8mm Plane Glass	sqft	₹ 111	₹ 120
5mm Paint Glass	sqft	₹ 50	₹ 60
10mm toughened Glass	sqft	₹ 105	₹ 120
Laminated toughened Glass	sqft	₹ 200	₹ 700
Frosted Toughened Glass	sqft	₹ 200	₹ 800
Tinted toughened Glass	sqft	₹ 150	₹ 700


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PHOTOGRAPHS:




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Day: 3

DATE: 22/05/2024, (Wednesday)

- **Measurement of quantities and determination of cost by B.S.R**




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PHOTOGRAPHS:




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CONCLUSION:

In wrapping up the Workshop on Market-Based Cost Estimation & Quantity Analysis, participants gained new skills to estimate project costs and quantities more accurately. We learned how to use market data and industry benchmarks to improve our cost predictions. By using tools that analyze real-time market information, we can make better forecasts and avoid going over budget or missing deadlines.

The workshop was interactive, with discussions and case studies helping us understand how to apply these techniques in real-life situations. We discovered ways to allocate resources more efficiently and find opportunities to save money without sacrificing quality.


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A key takeaway was the importance of staying flexible and adapting to changes in the market. By doing so, we can adjust our plans as needed and ensure the success of our projects.

Overall, the workshop was a valuable opportunity to learn from each other and gain practical skills that we can use in our work. We left feeling more confident in our ability to manage construction projects effectively and make informed decisions about costs and quantities.

ATTENDANCE SHEET:


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DEPARTMENT OF CIVIL ENGINEERING
ATTENDANCE STATUS

S.N	Registration No.	Student Name	11.50 to 12.50	Signature
1	PCE21CE001	AASHISH AMAL	Ad	Ad
2	PCE21CE002	AASHISH CHAUDHARI	Aashish	Aashish
3	PCE21CE003	ABHISHEK	Abhishek	Abhishek
4	PCE21CE004	ABHISHEK JITHAL	Abhishek	Abhishek
5	PCE21CE005	ADITYA MEENA	AB	AB
6	PCE21CE006	AKASH KUMAR DHARA	Akash	Akash Choudhary
7	PCE21CE007	ANKIT KUMAR MEENA	Ankit	Ankit
8	PCE21CE047	ASTHA DADHICH	Astha	Astha
9	PCE21CE501	ATISH CHOUHAN	Atish	Atish
10	PCE21CE008	BAJRANG	AB	AB
11	PCE21CE009	DEVANSH TYAGI	Devansh	Devansh
12	PCE21CE010	DEVANSHI MEENA	Devanshi	Devanshi
13	PCE21CE011	DEVANSHU HARSOLIA	AB	AB
14	PCE21CE012	FAEEZ	Faez	Faez
15	PCE21CE013	GARVIT CHHAWAL	AB	AB
16	PCE21CE014	GAURISH GAUD	AB	AB
17	PCE21CE015	HIMANSHU MEENA	AB	AB
18	PCE21CE016	JITENDRA SHARMA	AB	AB
19	PCE21CE017	KESHAV KUMAR	Keshav	Keshav
20	PCE21CE018	MAHENDRA GOUR	AB	AB
21	PCE21CE019	MANISH PRAJAPAT	Manish	Manish
22	PCE21CE020	MAYANK JHAJHARIA	AB	AB
23	PCE21CE021	MD TALHA	AB	AB
24	PCE21CE022	MOHD KAIF LANGA	AB	AB


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25	PCE21CE023	NAREN SINGH	Naren	Naren
26	PCE21CE024	NITESH KUMAR	Nitesh	Nitesh
27	PCE21CE025	PRATHAM	AB	AB
28	PCE21CE026	CHALHANI	AB	AB
29	PCE21CE028	PRAGYA KUMARI	Pragya	Pragya
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54	PCE22CE705	WASIM ALI	Wasim	Wasim

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This to certify that **Mr. Nitin Kumar** of Poornima College of Engineering Jaipur has participated in the session on **“Market Based Cost Estimation & Quantity Analysis”** held on **20-22 May 2024** at Poornima College of Engineering Jaipur Rajasthan.

Anandkish
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