

Equipment Selection: Criteria and Decision-Making

A Contractor's Perspective

SUBRATA DAS

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Necessity to
fix criteria for
selection of
Equipment



Consideration

- Scale
- Function
- Duration
- Location
- Environmental conditions.



Evaluation Criteria

Performance

- Production
- Efficiency

Reliability

- Availability
- Downtime

Maintenance

- Service points
- Service network
- Spare availability
- Spare consumption

Support

- Technical Support



Technological Advancements

- Efficiency and Accuracy
 - GPS
 - IoT
 - Automation

Cost-Benefit Analysis

Assess acquisition methods

- Purchase is long-term investment
- Leasing is flexible
- Renting is suitable for short-term needs.

Evaluate TCO and ROI considering

- Depreciation
- Maintenance
- Operational costs

Compliance and Safety



Equipment must meet industry safety and environmental standards.



Compliance ensures project sustainability and worker safety, reducing accident-related costs.

Supplier Evaluation



Strong reputation



Comprehensive support services



Favourable warranty terms.



Supplier relationships

Equipment reliability

Service availability

Conclusion

Efficient equipment selection is key to successful project execution in road and bridge construction.

Making informed decisions on equipment can lead to project success, cost savings, and improved operational efficiency.

Contact Information

If you have any questions or would like to connect with me for further discussions or inquiries, please feel free to use the contact information

Mobile +91-7980635078/ 9836666902

WhatsApp - +91-9836666902

Email- skd@pmdcs.in

Linkedin-www.linkedin.com/in/subratadas1

