



Weightage Factors
For
Engineering, Procurement, Construction
Projects

Project Baseline Consultants

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Revision 0

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A. Overall

a. Engineering	-	10%
b. Procurement	-	40%
c. Construction	-	45%
d. Commissioning	-	5%

B. Engineering

1. Disciplines

a. Process	-	10%
b. Civil and Structural	-	20%
c. Piping	-	15%
d. Mechanical	-	30%
e. Electrical	-	10%
f. Instrumentation	-	15%

2. Documents for Approval

a. Start Of Activity	-	20%
b. Submit For Approval	-	50%
c. Comments From Client	-	60%
d. Incorporate Comments	-	75%
e. Final Submission	-	90%
f. Issued For Design / Construction	-	100%

3. Documents for Information

a. Start Of Activity	-	20%
b. Final Submission	-	90%
c. Issued For Design / Construction	-	100%

4. Preparation of Enquiry Document

a. Preparation of Purchase Requisition	-	40%
b. Issue of PR for Client Review	-	60%
c. Comments From Client	-	70%
d. Incorporate Comments	-	90%
e. Issue For Purchase Department for Enquiry	-	100%

C. Procurement

1. Disciplines

a. Civil	-	10%
b. Structural	-	10%
c. Piping	-	25%
d. Mechanical	-	35%
e. Electrical	-	10%
f. Instrumentation	-	10%

2. Tender

a. Issue Of Enquiry	-	10%
b. Issue Of Technical Bid Analysis (TBA)	-	20%
c. Issue Of PO	-	30%
d. Manufacturing	-	90%
e. Dispatch	-	95%
f. Receipt at Site	-	100%

D. Construction

1. Disciplines

a. Civil	-	15%
b. Structural	-	10%
c. Piping	-	25%
d. Mechanical	-	30%
e. Electrical	-	10%
f. Instrumentation	-	10%

2. Civil

I. Site Grading

a. Clear Site	-	5%
b. Cutting and Filling	-	100%

II. Roads

a. Leveling	-	20%
b. Soling	-	50%
c. B.M.	-	70%
d. Premix	-	100%

III. RCC Structure		
a. Excavation/PCC	-	10%
b. Raft Concrete	-	25%
c. Super Structure Wall	-	65%
d. Slab and Back Filling	-	100%
IV. Piling and Pile Caps		
a. Rig Erection	-	10%
b. Pile Driving	-	60%
c. Testing	-	80%
d. Pile Cap	-	100%
V. Single Storey Structure		
a. Upto Plinth	-	15%
b. Super Structure	-	50%
c. Brick work	-	65%
d. Plastering	-	75%
e. Flooring	-	80%
f. Finishing	-	100%
VI. Foundation		
a. Excavation	-	10%
b. Reinforcement	-	35%
c. Shuttering	-	75%
d. Concreting	-	95%
e. Back Filling	-	100%
VII. Steel Structure		
a. Fabrication (Including Surface Preparation and Primer Coating)	-	50%
b. Erection	-	80%
c. Alignment & Grouting	-	95%
d. Final Painting	-	100%
VIII. Reservoirs (Under Ground)		
a. Excavation PCC	-	20%
b. Raft Construction	-	40%
c. Wall Concerting	-	65%
d. Slab Construction	-	90%
e. Misc. Works	-	100%

IX. Boundary Wall / Fence

a. Excavation PCC	-	5%
b. Brick Work	-	60%
c. Back Filling	-	80%
d. Fix Holes	-	90%
e. Wire / Painting	-	100%

X. Pavement

a. Leveling	-	5%
b. PCC	-	10%
c. Paving	-	100%

3. Mechanical

I. Non Pressure Piping (Under Ground)

a. Excavation	-	25%
b. Manholes	-	40%
c. Laying & Joining	-	85%
d. Testing	-	90%
e. Back Filling	-	100%

II. Pressure Piping (Under Ground)

a. Pre-Fabrication	-	15%
b. Welding and Testing	-	50%
c. Wrapping	-	60%
d. Excavation & Towering	-	85%
e. Testing	-	90%
f. Back Filling	-	100%

III. Columns / Vessels

a. Positioning	-	50%
b. Aligning & Grouting	-	60%
c. Fixing Internal	-	95%
d. Inspection	-	100%

IV. Heat Exchangers

a. Positioning	-	50%
b. Aligning & Grouting	-	60%
c. Testing	-	100%

V. Site Fabricated Storage Tanks

a. Bottom Plating	-	10%
b. Welding Shell	-	55%
c. Roof Erection	-	85%
d. Ladder and Platforms	-	90%
e. Hydro Testing	-	95%
f. Calibration	-	100%

VI. Horton Spheres

a. Column Erection	-	10%
b. Patel Aligning	-	50%
c. Welding and Radiography	-	80%
d. Hydro Testing	-	85%
e. Finishing	-	100%

VII. Horton Spheres

a. Column Erection	-	10%
b. Patel Aligning	-	50%
c. Welding and Radiography	-	80%
d. Hydro Testing	-	85%
e. Finishing	-	100%

VIII. Heaters

a. Structure Fabrication	-	30%
b. Structure Erection	-	50%
c. Refractory Lining	-	60%
d. Coil Erection	-	75%
e. Stack Erection	-	85%
f. Miscellaneous Work	-	100%

IX. Erection Of Machinery

a. Positioning	-	20%
b. Alignment & Grouting	-	65%
c. Cleaning and Flushing	-	85%
d. Final Aligning	-	100%

X. Piping Above Ground

a. Pre-Fabrication	-	30%
b. Erection / Welding	-	70%
c. Fixing valves	-	80%
d. Supporting	-	90%
e. Testing	-	100%

4. Electrical

I. Electrical Equipment Installation

a. Transportation to Site	-	10%
b. Fix Base Frame	-	45%
c. Aligning and Grouting	-	70%
d. Cable Connection	-	90%
e. Testing	-	100%

II. Electrical Cabling

a. Transportation to Site	-	10%
b. Tray Erection	-	40%
c. Cable Laying	-	80%
d. Cable Connection	-	90%
e. Testing	-	100%

III. Electrical Fittings

a. Installation	-	50%
b. Cable Connection	-	40%
c. Testing	-	100%

IV. Control panel

a. Transportation to Site	-	10%
b. Welding and Installation	-	25%
c. Aligning and Grouting	-	50%
d. Mounting Instruments	-	70%
e. Cabling	-	90%
f. Testing	-	100%

5. Instrumentation

I. Field Instruments

a. Support Erection	-	20%
b. Mounting	-	50%
c. Cabling	-	85%
d. Loop Checking	-	100%

6. Insulation

a. Surface Preparation	-	15%
b. Lagging	-	50%
c. Cladding	-	100%

7. Painting

a. Surface Preparation	-	15%
b. Primer Application	-	50%
c. Final Coating	-	100%

8. Refractory

a. Lining Preparation	-	25%
b. Castable	-	90%
c. Cure & Dry	-	100%