2019 Pipelines, Mining & Offshore Cost Data Yearbook

EIGHTH EDITION

- International Location Factors
- International VAT / GST Rates / International Import Duties
- Detailed Design Benchmarks
- Numerous Historical Benchmarks & Cost Models
- Construction Labor Rates
- General Requirements / General Conditions / Preliminaries / Construction Equipment and Plant
- Site Construction / Concrete Work / Masonry / Piling
- Structural Steel / Platforms
- Electrical Equipment / Transformers / Cable / Control Wire / Conduit Cable Tray
- Process Equipment / Major Equipment: Includes Agitators, Compressors, Condensers, Conveyors, Cooling Towers, Heat Exchangers, Pumps, Tanks & much more
- Instrumentation Devices and Controls Communications
- Insulation, Painting, Coatings Refractory
- Scaffolding
- Global and International Freight
- Offshore Construction Cost Data
- Pipelines (Onshore and Offshore)
- Module Cost Benchmarks
- Wind Turbines (Onshore and Offshore) Benchmarks
- Mining Benchmarks

Compass International Consultants Inc.
Morrisville, Pennsylvania, USA

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1

SECTION 1:
Introduction, General Comments and Calibration Factors: includes the following:
Location (Calibration) Factors - International values compared to USA Gulf Coast. (Base of 1.00). Calibrations in this application are used to adjust the benchmark prices depicted in the following SECTIONS (1 thru 700).
25 # Country Calibration Factors.
General Conversion Values - Imperial to Metric Units.

10

SECTION 10:
Major Equipment / Production Equipment

20

SECTION 20:
Site, Civil, Piling, Concrete, Masonry and Buildings

30

SECTION 30:
Structural Steel

40

SECTION 40:
Piping / (ISBL and OSBL)
SECTION 140:
Module Cost and Man hour Benchmarks

SECTION 150:
Wind Turbines (Onshore and Offshore) Benchmarks

SECTION 160:
Mining Benchmarks

SECTION 200:
Home Office Engineering and Support Costs

SECTION 300:
Construction Management Cost Data

SECTION 400:
Temporary Site Facilities

SECTION 500:
All-in hourly labor rates

SECTION 600:
Insurance Data

SECTION 700:
Miscellaneous items, Bonds, Spare Parts, Camp Costs, Construction Consumables, Start up issues, Transmission Line Benchmarks and Camp Costs.
Compass International Consultants Inc. was founded in 1992 (C.I.C.I) and is a provider of construction estimating services, international construction cost data, location factors, training seminars, value engineering, estimating support and conceptual construction economic cost data. Compass International is backed by an excellent staff of experienced Cost Engineers, Cost Estimators, Civil / Mechanical / Chemical Engineers and Economists.

WEB SITE:
www.compassinternational.net

MAILING ADDRESS:
Compass International Inc.
P.O. Box 1295
Morrisville, PA. 19067 - USA
Telephone / Fax (215) 504 9777

E-MAIL
sales@compassinternational.net
info@compassinternational.net

ACKNOWLEDGEMENTS
This data source is the result of more than twenty years research and data collection. The information contained in this data source was collected from more than 60 + completed CAPEX projects (Refinery, Chemical and Manufacturing facilities) located in North America, the UK, Mainland Europe, Asia, Africa and South America valued between $0.30 million to over $3 billion. The data is based on Compass International’s cost library, augmented with latest cost and labor data from International Development Banks and Agencies, European Union Commission Reports, various Country National Libraries and Bibliothèques from around the world, various Government Information Agencies, Global Quasi-Governance Organizations, an assortment of Government Trade Promotion Departments / Labor Departments, numerous trade magazines, hourly and annual salary rates from US / Overseas labor trade unions, professional society articles, an assortment of newspaper / magazine articles, various international almanacs / directories / tables / reference books, internet data and various cost – construction related publications. The cost models and tables have also been augmented by a number of personal estimating libraries, this information has been audited, expanded upon, modified and calibrated and refined to today’s construction methods and installation applications. We would like to express our sincere thanks to the many engineers, contractors, vendors and other individuals (friends and colleagues) too many to mention who have given freely of their advice, input, time and knowledge so that this data source could be produced for the benefit of individuals that have an interest in this subject matter. We welcome any comments or data that could be used in future updates to make this database more complete and accurate.
Introduction and Calibration factors

This publication, the 2019 Pipelines, Mining & Offshore Cost Data Yearbook is possibly the most authoritative and up to date construction cost estimating tool specific to the topic of estimating Process Plants, Pipelines & Offshore facilities.

The following Sections (1) through (700) contain U.S. unit costs for materials, labor (union and non-union applications) and construction equipment for construction work associated with Process Plants, Pipelines & Offshore construction work applicable for 2019. This publication answers the questions and issues that are needed in order to produce an accurate domestic or international construction cost estimate. This reference guide is appropriate for construction professionals who are familiar or who are possibly new to the subject of conceptual and detailed construction cost estimating of Process Plants, Pipelines & Offshore construction work.

We are convinced that the following information, data, tables and cost models depicted in Sections (1) through (700) will save the reader time in completing future Process Plants, Pipelines & Offshore estimating assignments...

INTERNATIONAL CONSTRUCTION CONNOTATIONS AND IMPLICATIONS

Today’s construction professionals are more than ever challenged in locating accurate and current international cost data, that is the #1 reason for creation of this database. Pipelines, Mining & Offshore construction projects are being built in just about every country around the world; hopefully this publication will assist the construction professional in pinpointing the cost data he or she is looking for.

An experienced cost estimator can without too much trouble compile a cost estimate for a building, plant or facility in the estimator’s native (home) country i.e. the USA, the UK or Canada to name but a few. However, the cost estimating effort that is required for an overseas Pipeline, Mine or Offshore construction project usually creates challenges to an estimator that spends the majority of his or her time compiling “domestic” cost estimates. These challenges include:
### OSBL PIPING 4" DIA SS 316 L

**Union Installation**
- $ Cost per LF $156
- $ Cost per M $514
- For height 12’ - 25’ Add between 2.5% and 5% to Labor and Construction Equipment
- For height 25’ - 50’ Add between 5% and 8% to Labor and Construction Equipment
- For height 50’ - 100’ Add between 8% and 15% to Labor and Construction Equipment

### OSBL PIPING 4" DIA HASTALOY C

**Union Installation**
- $ Cost per LF $489
- $ Cost per M $1,605
- For height 12’ - 25’ Add between 2.5% and 5% to Labor and Construction Equipment
- For height 25’ - 50’ Add between 5% and 8% to Labor and Construction Equipment
- For height 50’ - 100’ Add between 8% and 15% to Labor and Construction Equipment

### ISBL PIPING 2" DIA HASTALOY C

**Union Installation**
- $ Cost per LF $616
- $ Cost per M $2,020
- For height 12’ - 25’ Add between 2.5% and 5% to Labor and Construction Equipment
- For height 25’ - 50’ Add between 5% and 8% to Labor and Construction Equipment
- For height 50’ - 100’ Add between 8% and 15% to Labor and Construction Equipment

### ISBL PIPING 4" DIA HASTALOY C

**Union Installation**
- $ Cost per LF $293
- $ Cost per M $959
- For height 12’ - 25’ Add between 2.5% and 5% to Labor and Construction Equipment
- For height 25’ - 50’ Add between 5% and 8% to Labor and Construction Equipment
- For height 50’ - 100’ Add between 8% and 15% to Labor and Construction Equipment

### OSBL PIPING 4" DIA FRP

**Union Installation**
- $ Cost per LF $130
- $ Cost per M $426
- For height 12’ - 25’ Add between 2.5% and 5% to Labor and Construction Equipment
- For height 25’ - 50’ Add between 5% and 8% to Labor and Construction Equipment
- For height 50’ - 100’ Add between 8% and 15% to Labor and Construction Equipment

### ISBL PIPING 6" DIA FRP

**Union Installation**
- $ Cost per LF $361
- $ Cost per M $1,182
- For height 12’ - 25’ Add between 2.5% and 5% to Labor and Construction Equipment
- For height 25’ - 50’ Add between 5% and 8% to Labor and Construction Equipment
- For height 50’ - 100’ Add between 8% and 15% to Labor and Construction Equipment
STAINLESS STEEL MATERIAL PRICING METRICS

- $ cost per Lineal Foot (LF) & M 2019 Cost Basis
- Supply condition, pickled & passivated, plain ends, fittings are beveled

- For quantities exceeding 5,000 LF discount prices by 5% to 10%
- For small quantities less than 1,000 LF add 5% to 10% to prices indicated

<table>
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<tr>
<th>DESCRIPTION</th>
<th>GRADE</th>
<th>DIA. IN INCHES</th>
<th>SCHEDULE</th>
<th>$ COST PER LF</th>
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<td>56.62</td>
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WELDING PRODUCTION BENCHMARK:

Typical US based welder’s daily production rate. This is dependent on the type of work, new or revamp, routine work, out of sequence or complex work, weather conditions, worker skill level, and other issues related to production productivity:

<table>
<thead>
<tr>
<th>NO</th>
<th>LOW RANGE INCHES PER DAY</th>
<th>HIGH RANGE INCHES PER DAY</th>
<th>REMARKS</th>
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<td>1</td>
<td>20 - 25</td>
<td>30 - 40</td>
<td>Excellent productivity</td>
</tr>
<tr>
<td>2</td>
<td>10 - 15</td>
<td>20 - 25</td>
<td>Average Productivity</td>
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<tr>
<td>3</td>
<td>5 - 10</td>
<td>10 - 15</td>
<td>Poor Productivity</td>
</tr>
</tbody>
</table>

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Overhead in construction is a cost associated with supporting specific Engineering, Procurement and Construction activities, these support type costs cannot be readily identified with a specific task at a construction site(s), i.e. installing a foundation, or erecting a piping system. Overhead is typically associated home office support, such as Human Resources, Senior Management, Payroll Services, the cost of renting and heating the home office. On small projects say less than $1 million the overhead may be in the 15% to 25% range. On large construction projects of more than $50 million, the overhead percentage may be as low as 6% to 8%. The following list are typical home office overhead activities that need be recovered by pro-rating there costs over the organization’s annual sales.

- Owners / Directors / Project Managers salaries and bonuses
- Purchasing / Estimating / Sales / HR / Payroll personnel salaries and bonuses
- Office / Storage space rent and utility costs
- Marketing / Advertising costs
- Proposal production costs
- Company cars for senior staff
- Telephone / Internet services
- Travel costs to visit sites and potential customers
- Professional associations / society dues
- Office cleaning and facility / parking lot maintenance

Profit or mark-up follows the same logic as overhead. On small projects say less than $1 million the profit percentage may be in the 10% to 15% range, or whatever the market can bear. On large construction projects of more than $50 million, the profit percentage may be as low as 3% to 7%.
Specific construction wage rates, benefits and mark-ups (for additional information refer to previous information in Section (1)). Rates are appropriate for Open Shop Mechanical / Industrial (South East / South West USA) construction work in the following states Alabama, Arkansas, Florida, Georgia, Louisiana, South Carolina and Texas. These rates have been compiled in a slightly different format than the rates indicated in Section (1) previously which are Union Construction Rates.

<table>
<thead>
<tr>
<th>REF #</th>
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<tr>
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<td>“All In” Non-Union Labor Rates (2019)</td>
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<tr>
<td></td>
<td><strong>#</strong>   <strong>SKILL</strong></td>
</tr>
<tr>
<td></td>
<td><strong>A BASE HOURLY RATE</strong>  <strong>BASE BENEFITS AVER 3.25%</strong></td>
</tr>
<tr>
<td></td>
<td><strong>C WCI AVER 13.33%</strong>  <strong>D INSURANCE AVER 17.5%</strong></td>
</tr>
<tr>
<td></td>
<td><strong>E S T / C $3.85</strong>  <strong>F SUB TOTAL</strong>  <strong>G O/H &amp; P 15%</strong></td>
</tr>
<tr>
<td></td>
<td><strong>H TOTAL (W/O PER DIEM)</strong></td>
</tr>
<tr>
<td>1</td>
<td>Boilermakers (Forman)</td>
</tr>
<tr>
<td>2</td>
<td>Boilermakers (Journeyman)</td>
</tr>
<tr>
<td>3</td>
<td>Boilermakers Helper</td>
</tr>
<tr>
<td>4</td>
<td>Carpenter (Forman)</td>
</tr>
<tr>
<td>5</td>
<td>Carpenter (Journeyman)</td>
</tr>
<tr>
<td>6</td>
<td>Carpenters Helper</td>
</tr>
<tr>
<td>7</td>
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<td>8</td>
<td>Carpenter (Journeyman)</td>
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<td>9</td>
<td>Cement Mason (Forman)</td>
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<td>10</td>
<td>Concrete Finisher</td>
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<tr>
<td>11</td>
<td>Equipment Operator (Heavy Crawlers / Cranes)</td>
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<td>12</td>
<td>Equipment Operator (Medium Crawlers / Cranes)</td>
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<td>Electrician (Forman)</td>
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<td>Electrician Helper</td>
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<td>Instrumentation (Journeyman)</td>
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<td>Insulator</td>
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<td>21</td>
<td>Ironworker (Forman)</td>
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<tr>
<td>22</td>
<td>Ironworker (Journeyman)</td>
</tr>
<tr>
<td>23</td>
<td>Ironworker Helper</td>
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</table>
STATE UNEMPLOYMENT TAXES / SOCIAL SECURITY CONTRIBUTIONS

All of the 50 US states manages / administers its own unemployment compensation program, this is funded for the most part by taxes on owner companies / employers. When you come right down to it, state unemployment taxes are imposed directly on employers and taxes are not withheld from employees’ wages and salaries. At this time only three states, Alaska, New Jersey, and Pennsylvania also levy unemployment taxes on employees. Through June 30, 2011, the Federal Unemployment Tax Act imposed a tax of 6.2%, which was composed of a permanent rate of 6.0% and a temporary rate of 0.2%, this was passed by the US Congress in 1976. The temporary rate was stretched out many times since 1976. The Social Security contribution rate for 2015 is 6.2% for employees, 6.2% for employers, and 12.4% for self-employed people. These rates apply to earnings up to the maximum taxable amount ($128,400 in 2018).
<table>
<thead>
<tr>
<th>REF #</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>UNIT HOURS -30%</th>
<th>UNIT HOURS BASELINE</th>
<th>UNIT HOURS +30%</th>
<th>$ MATERIAL UNIT RATE -30%</th>
<th>$ MATERIAL UNIT RATE BASELINE</th>
<th>$ MATERIAL UNIT RATE + 30%</th>
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<tr>
<td>113</td>
<td>Fabricate and install 12&quot; x 18&quot; concrete splash blocks at each downspout for water removal.</td>
<td>Nos</td>
<td>0.35</td>
<td>0.50</td>
<td>0.65</td>
<td>82.46</td>
<td>117.8</td>
<td>153.14</td>
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<tr>
<td>114</td>
<td>Supply and lay 12&quot; diameter concrete spigot and socket pipes including fittings, jointing and sealing with specified joint material.</td>
<td>LF</td>
<td>0.12</td>
<td>0.17</td>
<td>0.22</td>
<td>22.25</td>
<td>31.78</td>
<td>41.31</td>
</tr>
<tr>
<td>115</td>
<td>Supply and lay 16&quot; diameter concrete spigot and socket pipes including fittings, jointing and sealing with specified joint material.</td>
<td>LF</td>
<td>0.13</td>
<td>0.19</td>
<td>0.24</td>
<td>25.40</td>
<td>36.29</td>
<td>47.18</td>
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<td>0.15</td>
<td>0.21</td>
<td>0.28</td>
<td>29.90</td>
<td>42.72</td>
<td>55.54</td>
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<tr>
<td>117</td>
<td>Supply and lay 20&quot; diameter concrete spigot and socket pipes including fittings, jointing and sealing with specified joint material.</td>
<td>LF</td>
<td>0.18</td>
<td>0.25</td>
<td>0.33</td>
<td>35.78</td>
<td>51.12</td>
<td>66.46</td>
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<tr>
<td>118</td>
<td>Supply and lay 24&quot; diameter concrete spigot and socket pipes including fittings, jointing and sealing with specified joint material.</td>
<td>LF</td>
<td>0.21</td>
<td>0.30</td>
<td>0.39</td>
<td>43.35</td>
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<td>80.51</td>
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<tr>
<td>119</td>
<td>Fabricate and lay 6&quot; diameter UPVC pipes including fittings, jointing and sealing with specified joint material.</td>
<td>LF</td>
<td>0.06</td>
<td>0.08</td>
<td>0.10</td>
<td>11.59</td>
<td>16.56</td>
<td>21.53</td>
</tr>
<tr>
<td>120</td>
<td>Fabricate and lay 10&quot; diameter UPVC pipes including fittings, jointing and sealing with specified joint material.</td>
<td>LF</td>
<td>0.06</td>
<td>0.08</td>
<td>0.10</td>
<td>14.74</td>
<td>21.06</td>
<td>27.38</td>
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69 kV electrical overhead single circuit electrical / transmission line in the USA would cost between costs approximately $300,000 to $350,000 per mile as opposed to $1,600,000 to $1,850,000 per mile for a new 69 kV underground electrical line, representing a factor of more than 5. Following up on this comparison, a new 138 kV electrical overhead line costs approximately $400,000 to $450,000 per mile compared to $2,150,000 to $2,500,000 per mile for an underground electrical line, representing a factor of more than 5.

The above costs are influenced by the location, i.e. rural or suburban situation, wooded areas, changes in direction, road crossings, level or hilly ground conditions, the cable run lengths, tie-ins / termination locations and the number of supplementary services and support structures required.

Additional items that can add to the cost of buried / underground power / transmission lines versus overhead electrical transmission / power lines are as follows:

- Demo of paving / roads and possible structures.
- Repairs and making good to paving and road area.
- Road, rail and river crossing.
- Loss of construction productivity due restrictions in built-up urban areas.
- Planking & strutting / sheet piling to open trenches.
- Clashes and interfacing with other underground services, such as gas, water, gas and sewers.

Underground electrical transmission construction costs can be extremely location specific; this is usually the case for high voltage Overhead Electrical Transmission / Power Line applications, these plus a host of other issues will possibly influence the cost.

Various Types of Underground Electric Transmission Cable Lines:

**CAMP COSTS (PER DAY) 2017 COST BASIS BASED ON 24 MONTH UTILIZATION:**

Temporary worker campsites are many times required on large remote or inaccessible CAPEX projects. The logistics of lodging and feeding the construction workforce can be very challenging. The closest city and any hotels or lodging facilities might be more than 100 miles away from the actual construction site. Harsh conditions, such as jungle, deserts and arctic tundra may be in play, these issues, together with the intense weather conditions are issues to that need to be considered in the cost estimating cycle. Inadequate or a total lack of transportation systems or highways may be present, many times electricity and other utilities (water, gas and sewers) are absent, these issues together with a possible scarcity of skilled workers typically lead to the decision that a temporary worker camp is required.

The following table (next page) depicts the day rate costs for different sizes of temporary worker camps, the data is based on new modular construction, a combination of 2, 3 and 4 beds / persons per room, a shower, sink and toilet to each shared room, beds and bedding / towels provided and changed once a week, heat and air-conditioning, 2, 3 or 4 desks / chairs, chest of drawers, together with mid-sized refrigerator and one TV per room, one common laundry, kitchen and lunch room per 40 workers. Day rate includes erection and dismantling of the modular buildings, maintenance, cleaning, guard services, cooks, restaurant workers and administration staff.

The day rate also includes, (3) three meals per day (Breakfast and Evening meal, plus a brown bag lunch). Site preparation and construction of utilities are excluded. Note: USA / Canada and Western Europe should be considered as equal to a 1 or 2 star hotel, other locations typically are of a lesser standard and quality, this of course drives the day rate down.