

Agenda

I. Introduction to Procurement

- Procurement Function
- Different Definitions
- Two Types of Procurement

II.Project Procurement Process

- o Procurement Planning
- Supplier Selection
- Contracts
- Contract Management
- Evaluation & Closure

III. Sustainable Procurement



I. Introduction to Procurement



Introduction to Procurement



The basic objectives of procurement are:

- to purchase equipment, material and/or services, necessary to meet the technical specifications, and
- o to ensure that the deliveries are in accordance with the overall schedule and in the most cost-effective manner.
- o Alternatively to provide input for project budget creation before the investment decision



Procurement as part of modern business operations





Global competition



Increased outsourcing



Improved communication



Different Definitions

Ordering

Buying

Purchasing

Procurement

Sourcing

Supply Chain Management

Value Chain Management



Arjan van Weele (Jan 5, 2014). CollegeTourPurchasing Video 1 What is Purchasing? YouTube: 4:37-8:14

Two Types of Procurement

Organizational / Operational

Procurement for sustaining an organization's daily business processes

Strives to achieve lower unit prices and optimize supply chain

Centralized administration: fast quote and order processes

Long-term strategic relationships with suppliers

Project-based

Procurement for a particular purpose or project

Ensures overall project delivery

Project procurement function resides with the project team, requires numerous activities in a short period of time

Project-based relationships with suppliers



II. Project Procurement Process



Typical Project Procurement Process

1.PROCUREMENT 4.CONTRACT 5.EVALUATION & 2.SUPPLIER 3.CONTRACTS **SELECTION MANAGEMENT PLANNING** Need recognition / Supplier Purchase Contract Contract closing Enquiry plan identification and negotiations administration (punch list, closing pre-qualification (technical & of accounts, Project procurement o Invoice control commercial) warranty bonds) (RFI, Due Diligence, policy & project Expediting NDA) Contract awarding procurement Supplier Change o Multiple rounds, if manual performance o Purchase order (PO) management needed evaluation Specifications (budgetary/binding) Feedback to cost Procurement Approved list of estimating schedule, resource suppliers plans, man-hour Lessons learnt Proposal request forecasts Continuous

(ITT, RFQ, RFP, RFT,

Tender comparison

IFB, ITB)

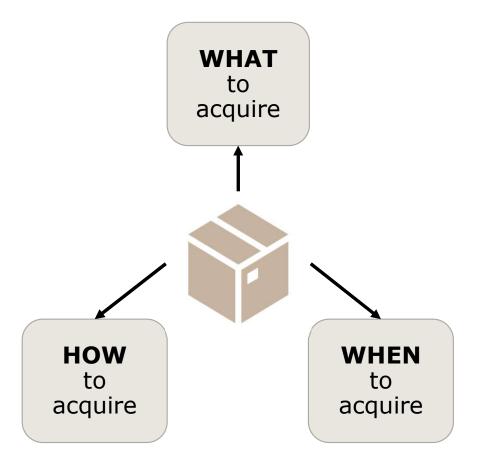


CLOSURE

development

1. Procurement Planning

- Identify a need to purchase a product or service; the idea originates outside the procurement department → the procurement department's function is to buy on behalf of the rest of the organization
- Define procurement register, prepare a procurement manual, procedures, templates
- Define project requirements, terms & conditions and project specifications
- Identify procurement milestones & prepare a procurement time schedule



Procurement Schedule Examples

Original project procurement schedule:

Package Name	ITT Nº	Sourcing Responsible	Technical Responsible	Start	Finish	
Overhead Cranes	M023	Anna	Jukka			
ITT Preparation				1.8.2022	15.8.2022	
Tendering Time				16.8.2022	13.9.2022	
Tender Comparison				14.9.2022	5.10.2022	
Negotiations				6.10.2022	27.10.2022	
Contract Day				27.10.2022	27.10.2022	
Site Need Date				30.6.2023	30.6.2023	

Follow-up of procurement activities:

ITT Nº	Package	ITT out	ITT out	ITT out	Tenders	Tenders	Tenders	Tender	Tender	Tender	Contract Day	Contract Day	Contract
	Name	PLANNED	ACTUAL	Δ	Received	Received	Received	Comparison	Comparison	Comparison	PLANNED	ACTUAL	Day
					PLANNED	ACTUAL	Δ	PLANNED	ACTUAL	Δ			Δ
M023	Overhead Cranes	16.8.2022	19.8.2022	3	13.9.2022	23.9.2022	10	5.10.2022	19.10.2022	14	27.10.2022	11.11.2022	15

Unresolved technical issues, uclear scope of supply, etc. High workload of suppliers, holidays, sick leaves, etc. Delayed offers + incomplete offers with unclear points

Delayed preceding phases + schedule difficulties in arranging negotiations



2. Supplier Selection

- Identification of Suppliers
 - o Prepare a list of potential suppliers
 - Maintain supplier register (database)
 - Supplier pre-qualification (HSE, Ethics, Capacity/Resources, Financial condition, References, etc.)
- Requesting Offers
 - Issue requests for bids with all required documentation & track the bidding process
 - o Receive and archive offers
- Evaluation of Received Offers
 - Technical and commercial clarifications
 - o Technical evaluation
 - Commercial evaluation
 - Recommendation to the Client for negotiations



Example of Price Information in Offers

		CRANES SUPPLIER OY			
		23.9.2022			
		23.11.2022			
		EUR			
		580,000.00€			
Units	Unit Price	Total Price			
5	35,000.00	175,000.00			
3	60,000.00	180,000.00			
2	100,000.00	200,000.00			
		\$300 Like 17 - 2 7712			
		25,000.00			
		88,000.00€			
5	7,000.00	35,000.00			
3	8,500.00	25,500.00			
2	10,000.00	20,000.00			
including	all travel expenses	5,000.00			
including	all travel expenses	2,500.00			
		75,000.00€			
		75,000.00			
		7,000.00			
basic cold	our included in the price	750.00			
C4 include	ed in the price	2,350.00			
	5 3 2 5 3 2 including including	5 35,000.00 3 60,000.00 2 100,000.00 5 7,000.00 3 8,500.00 2 10,000.00 including all travel expenses including all travel expenses			



Examples of Selection Criteria among Industrial Clients



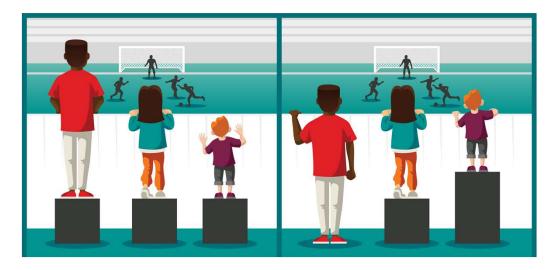
Industry/project specific criteria



Treating Tender Participants Equally or Fairly?

EQUAL

FAIR



All tender participants must be treated equally and fairly.

However, equal is not always fair.



3. Contracts

Contract Documentation

 Contracting models: Supply Contract, Installation Contract, Frame Agreements, Engineering Contract, EPC, EPS, etc.

Negotiations

 Coordinate participation in negotiations among the engineering and site management, Client and selected suppliers

Contract Awarding

 Prepare technical and commercial documentation for contracts, signatures according to the authority matrix

Purchase Orders (POs)

- Create purchase requisitions and POs in the Client's ERP system
- Receive order confirmation
- o Inform all unsuccessful bidders



Contract Content



Legal-Economic Part

- Legal stipulations
- Prices
- Payment terms and milestones
- Bank guarantees
- Liquidated damages
- Delivery schedule



Technical Part

- Warranties (performance, mechanical, availability)
- Technical specification & datasheets
- Technical standards
- Project specific specifications
- Safety requirements
- Quality assurance inspections, acceptance tests procedures



Main Points to Remember in Contracts

There is no one-size-fitsall approach in contracts. You have to tailor contracts to suit your needs.

Deliverables should be as clear as possible to avoid misunderstandings and dissappointing results.

If it's not part of the contract, it's not part of the deal!

Project team should make sure that purchasing meets the project needs.

Ask your legal team to review all contracts to ensure they follow legal requirements & protect you in case of disagreements.

Clarity in contract content!



4. Contract Management

- Contract Administration
 - Ensure that responsibilities and milestones are being met and the value of the contract is not increasing throughout unmanaged growth of scope
 - Progress reports
- Invoice Control
 - o Checking invoices againts contract and payment milestones
- Expediting
 - o Follow-up of document deliveries
 - o Monitoring fabrication and inspection activities
- Change Management
- Management of change orders and additrional works



Expediting



DESK EXPEDITING

- Kick-off & monthly meetings with selected suppliers
- Supplier document follow-up
- Progress follow-up & reporting



FIELD EXPEDITING

- Planning expediting visits according to the expediting categories and ITP
- Conducting expediting visits → output: expediting reports



SHIPPING

- Cargo readiness / checking of shipping documents
- •Shipping and customs clearance
- Unsatisfactory, Overage, Shortage and Damage (UOSD) inspection report



Expediting Categories

CATEGORY A:

- Deliveries are on the critical path (large packages, use of new suppliers or unknown sub-suppliers, etc.)
- Any delay or quality issue will impact the project schedule and/or return on investment (ROI)
- Doubt or lack of experience of the supplier or their sub-supplier

CATEGORY B:

- No direct impact on the execution of the project, if delivered slightly delayed to site, but where the documentation is essential to proceed with the detailed engineering
- Items on sub-critical path and are getting critical when delayed by 2 weeks
- Items which will have an operational impact because of its role into the process (compressor package, process cooling unit, etc.)

CATEGORY C:

- Delivery time is well sufficient for manufacturing and shipment, but which can result in significant additional activities if delayed
- Hand valves, standard items, which may be limited as stock items

> CATEGORY D:

- Not critical items at all and do not require any specific expediting actions
- Bulk material deliveries



Progress Report Example

Description	Weighted	PROGRESS.														100	
	Factor	Sep	2019	Oct	2019	Nov	2019	Dec	2019	Jan	2020	Feb	2020	Mar	2020	Apr	2020
(1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Est %	Act %	Est %	Act %	Est %	Act %	Est %	Act %	Est %	Act %	Est %	Act %	Est %	Act %	Est %	Act %
Engineering	30	10 %	8%	60 %	70 %	80 %		100 %		100 %		100 %		100 %		100 %	
Procurement	25	0%	0 %	40 %	40 %	90 %		100 %		100 %		100 %		100 %		100 %	
Manufacturing	25	0%	0%	30 %	30 %	40 %		70 %		100 %		100 %		100 %		100 %	
Inspection & Testing	10	0%	0 %	30 %	10 %	30 %		30 %		70 %		100 %		100 %		100 %	
Delivery	10	0%	0%	0%	0 %	0%		0%		50 %		100 %		100 %		100 %	
TOTAL	100	3	2	39	40	60	0	76	0	92	0	100	0	100	0	100	0
MAIN EVENTS:	Engineering	5		Please	briefly	write	here w	hat has	been d	one dui	ring the	reporte	d mont	th.			
	Purchasing																
	Manufactur	ring															
	Assembly																
	Inspection 8	& Testi	ng														
	Packing																
	Delivery																
CONCERNS AND	Engineering	5		Please	briefly	menti	on chal	lenges y	ou face	e, if any	& way	s you ar	e plann	ing to o	vercom	e them	
MITIGATION PLAN:	Purchasing																
	Manufactur	ring															
	Assembly																
	Inspection 8	& Testi	ng														
	Packing																
	Delivery																
	Mitigation I	Plan															
TARGETS FOR	Engineering	5		Please	briefly	write	here yo	ur mair	activit	es in th	e next i	month.					
NEXT PERIOD:	Purchasing																
	Manufactur	ring															
	Assembly																
	Inspection 8																
	Packing																
	Delivery			Ī													



5. Evaluation

- Generally, supplier performance is evaluated with regard to:
 - Quality
 - o Delivery time / schedule
 - o HSE
- Not all suppliers need to be evaluated in the same way
- Supplier records with past performance serve as a reliable guide for upcoming purchases
- Benefits of a supplier database:
 - Significantly reduces the time and effort required either to source or to renew contracts
 - More choices of competent suppliers & increased responsiveness
 - o Increased possibility to get reliable suppliers
 - o Enhanced availability of goods



5. Closure

- A complete set of indexed contract documentation, including the closed contract, is prepared for inclusion with the final project files.
- The buyer provides the seller with formal written notice that the deliverables have been accepted.
- Lessons learned, what has been experienced and process improvement recommendations should be developed for the project file to impove future procurements.
- No project is complete until all contracts are closed out, invoices are paid, and lessons learned are documented.



III. Sustainable Procurement



Why Sustainable Procurement?

Procurement Strategy should incorporate the sustainability aspects that should be met through the equipment/service life cycle/duration. Sustainable Procurement integrates requirements, specifications and criteria according to the Client's and regulatory requirements for goods and services in a manner that covers the entire life-cycle. This in turn benefits not only the purchasing organization but also the society at large, while minimizing damage to the environment.



Lowest environmental impact



Most positive social results



Questions?

Please contact me by email aaron.horvath@afry.com



