



Outsourcing, Technology Transfer & CMO-Client Relationships

Project Execution and Management

Contract Manufacturing / Outsourcing Munich, 23-24 November 2017 Morten Munk NNE



- Align expectations
- Appreciate different cultures and success criteria
- Go in detail stage by stage
- Nothing is obvious define/discuss assumptions
- Timeline
- Organization
- Build platform for communication between sponsor and CMO
- F2F meeting especially in the initial phases
- Responsibility matrix RACI
- Project Management
- Document decisions and include a communication strategy for all decisions



PQS: Pharmaceutical Quality System

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Modular - Copy / Paste

On-site construction, where same type of rooms are build as copies – same size and configuration

Modular – Off-site construction of building elements – LEGO concept

A method of construction that utilizes off-site pre-engineered, pre-fabricated structures which are reassembled on-site. Up to 100% of the building and the equipment are already completed and pre-tested at the factory prior to shipping.

Modular – PODular

Full clean-room facilities built in a POD, including HVAC, air locks etc., which is build and qualified off-site. The POD's are then shipped to the site for the pharmaceutical production and connected to the stick built part of the facility.







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Project Planning

Legal + technical + quality objectives

For each stage:

- 1. Objective
- 2. Assumptions
- 3. Prerequisites
- 4. Scope of work
- 5. Resources
- 6. Deliveries
- 7. Documentation
- 8. Duration
- 9. Price
- 10. Predecessor(s)
- 11. Risk assessment

NETWORK

Partners Stakeholders

TOOLS

Project plan Validation plan Timelines Budget Cash flow

DOCUMENTATION

Project index



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24





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Project Management Structure

Core Team

- The technical decision forum
- Focus on best technical solution, within the limits of the agreed contract
- Frequent meetings, involving all relevant technical parties
- Direct contact scientist to scientist

Steering Committee

- Strategic decision forum
- Members have authorized decision power
- Financial, timeline and issues escalated from Core team
- Long-term strategic project management

Steering Committee

Client & CMO Management

Core Team

Client

Project Manager Upstream, Downstream & Analytical Development Quality Control Manufacturing Quality Assurance

СМО

Project Manager Upstream, Downstream & Analytical Development Quality Control Manufacturing Quality Assurance



RACI Chart – Decisions and Communication

Responsible for performing the task (can be multiple people)
Accountable for the task being completed/results (only one person)
C onsulted with prior to the task being performed (can be multiple people)
Kept In the loop about the task (can be multiple people)

							Development/ Finance/
	Sponsor	Sponsor	СМО	СМО	Steering		Manufacturing /Analytical
Activity / Stakeholder	Owner	PM	BD rep	PM	group	Core Team	/etc.
Contract							
Work scope	С	R	A,R	С	R	С	I
Quality agreement	С	R	A,R	С	R	С	I
Price	R	R	A,R	I	R	NA	I / NA
Process							
Specification	I	C	I	A,R	I	R	С
Batch record	I	C	I	A,R	I	R	С
Tech transfer		С	I	A,R	I	R	С



Project Manager Challenges

- The project manager is never given enough money, time, and resources
- The PM has little power most team members report to other departments of the organization
- The PM should be an expert in crisis handling
- Company cultures are different
- Communication skills
- Be prepared for changes
- Consider that people might have different agendas. Balancing the interest of the project and of the respective companies (and maybe of the personal career)



Continuous improvement



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Pitfalls in Project Execution



- Risk assessment (reducing the number of technical batches increases risk for Tox and GMP batch failure)
- How many are required?

Tox batches

- No late changes
- Is process design complete?
- Allow one month for finalizing master production records and bill of materials (and even more time if translations are needed)
- Minimize reasons for conflicts

GMP batches

• Preferably no process changes compared to Tox batch



Pitfalls in Project Execution



- Nothing is obvious
- Define assumptions
- Insufficient process development
- Warnings from small scale and technical batches ignored
- Lack of trust
- Decision-making not clearly defined
- Late or not well-controlled process changes
- Insufficient decision making
- Lack of commitment
- Lack of win win approach

Failed to
ALIGN EXPECTATIONS