Assumptions

- Neglect the process of when supplier buying goods from venders because I have taken venders are not directly involve with the system where use case diagram can exclude venders. For contractors/delivery team also, I did the same. And assumed supplier has all the goods which they need.
- Purchase Orders can be done only by a person who is working in the same construction industry.
- Before becoming an ordering staff, he/she should be an employee who can make request for that eligibility.
- Under procurement management, "Estimate availability of all the storage areas" is taken as to cover the "handle multiple depots for the same supplier" in the case study as well.
- Assume the third party as the supplier but they can interact with the system.
- Procurement Manager/ Accounting Staff is taken as the Procurement Manager in the diagram.
- Since delivery team is not in the system, assumed Procurement Manager, Site Manager and Supplier should responsible for them and should be able to monitor their work.
- Ignore the logging use case because sir asked to implement only business logic. Yeah. That is for implementing but not for designing. But I thought to avoid from drawing it in use case for two justified reasons. One is Since there are 7 users then 7 includes for the same login use case can make the diagram ugly. And other is for the use case diagram no marks were assigned. But according to the Assignment1 instructions it should be there. So, if you need I can draw it as well? Please comment your ideas in group chat.
- Since use case design can be taken as a high-level diagram not added some points which are difficult to represent.

1. Employee
   - Make request to gain privileges for ordering.

2. Ordering Staff
   - Place purchase orders (place orders).
   - Void/update orders.

3. Supplier
   - Send information about goods to site manager.
   - Generate invoice with unique sequential reference number.
   - Add return goods.
   - Generate good receipt
   - View delivery advice notes.
   - View approved purchase orders.

4. Policy Manager
   - Consume all necessary information and create policies for others. (add approval levels, users and filters for each policy)

5. Procurement Manager/ Accounting Staff
   - Pricing for the system. (pre-agreed prices for commonly purchased items)
   - Authorize to view details of purchase orders and delivery advice information.
   - Select accounts to take funds for the purchase.
   - Estimate availability of all the storage areas.
   - Calculate cost for transportation of goods. (**if procurement department is in other site calculate additional cost**)
   - Estimate whether goods can keep until the delivery date. If not keep it inform suppliers.
   - Manage the delivery team and vehicles effectively for delivering purposes.

6. Senior Manager
   - Approve or decline purchase requisitions with necessary comments.
   - Raised approve purchase order and send details to supplier. (before approving purchase order, they will check the availability also through procurement managers calculation of availability)

7. Site Manager
   - Control/manage goods.
   - Generate and place purchase orders.
   - Raise queries on already placed orders.
   - View deliveries.
   - View the purchase orders.

Procurement Construction

Employee

Make request to gain privileges for ordering

Create policies

Policy Manager

Send information about goods to site manager

Supplier

Generate invoice

Add return goods

View deliveries

Generate good receipt

Manage purchase requisitions
Ext 1: Approve Requisition
Ext 2: Decline Requisition

Approve

Decline

<<include>>

<<include>>

View the approved purchase orders

View the purchase orders

Place orders

Void/update orders

Make payment and receive goods

Raise enqueries on already placed orders

Senior Manager

Ordering Staff

Site Manager

Procurement Manager

Pre- agreed pricing

calculate additional cost

inform suppliers

Pricing for the system
Ext: commonly purchased items

<<extend>>

Calculate cost for transportation of goods
Ext: procurement department is in other site

<<extend>>

Estimate whether goods can keep
Ext: if not keep

<<extend>>

Estimate availability of all the storage areas

select accounts to take funds

Manage the delivery team and vehicles effectively for delivering purposes

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