

E-TENDER MANAGEMENT SYSTEM

Technical & Functional Documentation (SAP ABAP)

PROJECT OVERVIEW

Project Name: E-Tender Management System

Module: MM (Materials Management) + Custom ABAP

Purpose:

To automate the complete procurement lifecycle from **Purchase Requisition → Tender → Vendor Evaluation → PO → GR → Invoice → Certification Clearance**, with **full audit tracking**.

BUSINESS OBJECTS & CUSTOM TABLES

Core Tables

Table Name	Purpose
ZTENDER_HDR	Tender header (one per PR)
ZTENDER_ITEM	Tender line items
ZTENDER_VENDOR	Vendor participation & bids
ZTENDER_AUDIT	Complete audit trail
ZTENDER_INVOICE	Invoice records
ZTENDER_GR	Goods Receipt confirmation
ZTENDER_CERT	Certification / compliance clearance

1.DOCUMENT CONTROL

Item	Details
Project Name	E-Tender Management System
Module	SAP MM + ABAP
Developer	ANKIT RAJ
Role	ABAP Developer
System	SAP S/4HANA / ECC
Date	[10/01/2026]

2. PROJECT OVERVIEW

2.1 Objective

To design and develop an **end-to-end E-Tender procurement solution** in SAP covering:

- Tender creation from PR
- Vendor selection & bid evaluation
- Purchase Order creation
- Goods Receipt
- Invoice creation
- Certification clearance
- Complete audit trail

2.2 Business Benefits

- Eliminates manual tender tracking
- Improves audit & compliance
- Ensures transparency in vendor selection
- End-to-end traceability

3. SYSTEM LANDSCAPE

Component	Details
SAP Module	MM
Custom Objects	Z Tables, Z Reports
Integration	BAPI_PO_CREATE1
Database	SAP Transparent Tables

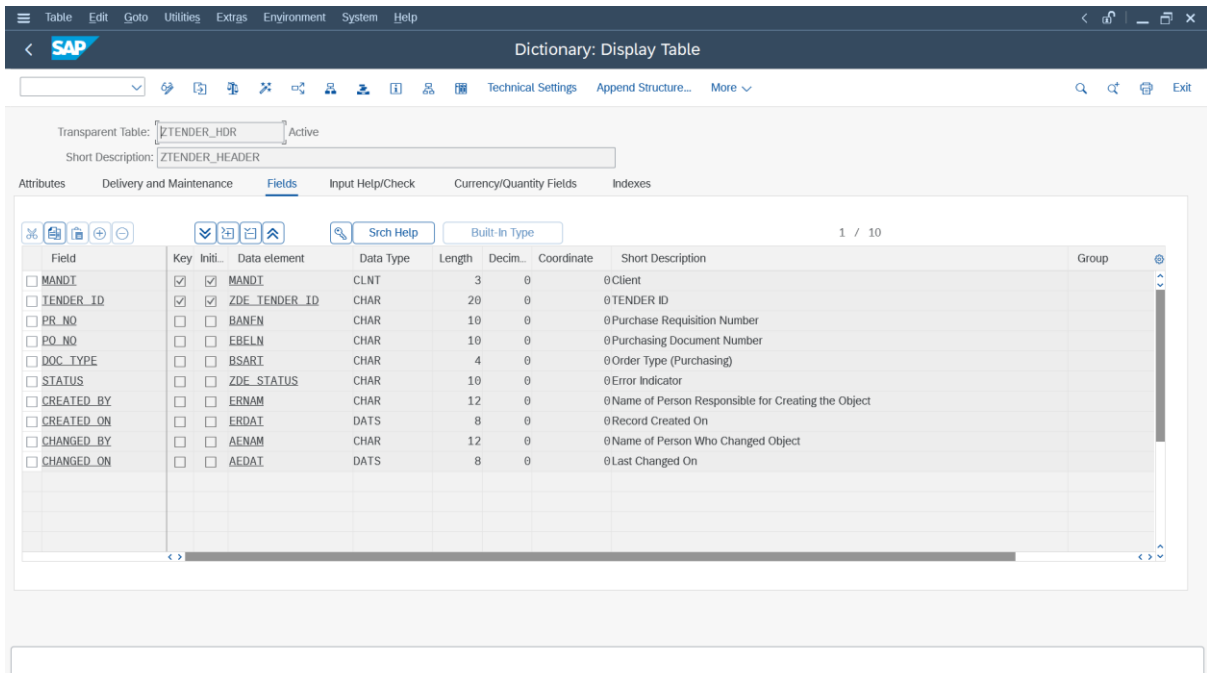
4. CUSTOM TABLE DESIGN

4.1 ZTENDER_HDR – Tender Header

Purpose: Stores tender header data

Field	Description
TENDER_ID	Unique Tender Identifier
PR_NO	Purchase Requisition
STATUS	Tender Status
PO_NO	Purchase Order Number
CREATED_BY	User
CREATED_ON	Date

Screenshot Placeholder – SE11 ZTENDER_HDR



Transparent Table: ZTENDER_HDR Active
Short Description: ZTENDER_HEADER

Attributes Delivery and Maintenance Fields Input Help/Check Currency/Quantity Fields Indexes

Field	Key	Initi...	Data element	Data Type	Length	Decim...	Coordinate	Short Description	Group
<input type="checkbox"/> MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0		0 Client	
<input type="checkbox"/> TENDER_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZDE_TENDER_ID	CHAR	20	0		0 TENDER ID	
<input type="checkbox"/> PR_NO	<input type="checkbox"/>	<input type="checkbox"/>	BANEN	CHAR	10	0		0 Purchase Requisition Number	
<input type="checkbox"/> PO_NO	<input type="checkbox"/>	<input type="checkbox"/>	EBELN	CHAR	10	0		0 Purchasing Document Number	
<input type="checkbox"/> DOC_TYPE	<input type="checkbox"/>	<input type="checkbox"/>	BSART	CHAR	4	0		0 Order Type (Purchasing)	
<input type="checkbox"/> STATUS	<input type="checkbox"/>	<input type="checkbox"/>	ZDE_STATUS	CHAR	10	0		0 Error Indicator	
<input type="checkbox"/> CREATED_BY	<input type="checkbox"/>	<input type="checkbox"/>	ERNAM	CHAR	12	0		0 Name of Person Responsible for Creating the Object	
<input type="checkbox"/> CREATED_ON	<input type="checkbox"/>	<input type="checkbox"/>	ERDAT	DATS	8	0		0 Record Created On	
<input type="checkbox"/> CHANGED_BY	<input type="checkbox"/>	<input type="checkbox"/>	AENAM	CHAR	12	0		0 Name of Person Who Changed Object	
<input type="checkbox"/> CHANGED_ON	<input type="checkbox"/>	<input type="checkbox"/>	AEDAT	DATS	8	0		0 Last Changed On	

4.2 ZTENDER_ITEM – Tender Items

Screenshot Placeholder – SE11 ZTENDER_ITEM

TableEditGotoUtilitiesExtrasEnvironmentSystemHelp

Dictionary: Display Table

Transparent Table: ZTENDER_ITEMActive
Short Description: TENDER LINE ITEMS

AttributesDelivery and MaintenanceFieldsInput Help/CheckCurrency/Quantity FieldsIndexes

FieldKeyInit...Data elementData TypeLengthDecim...CoordinateShort DescriptionGroup

☐MANDT☒☒MANDTCLNT300Client

☐TENDER_ID☒☒ZDE_TENDER_IDCHAR2000TENDER ID

☐ITEM_NO☒☒EBELPNUMC500Item Number of Purchasing Document

☐MATNR☐☐MATNRCHAR4000Material Number

☐MEINS☐☐ZDE_MEINSUNIT300UNIT

☐MENGE☐☐ZDE_MENGEQUAN1330Quantity

☐DELIVERY_DATE☐☐EINDTDATS800Item Delivery Date

4.3 ZTENDER_VENDOR – Vendor Mapping

Screenshot Placeholder – SE11 ZTENDER_VENDOR

TableEditGotoUtilitiesExtrasEnvironmentSystemHelp

Dictionary: Display Table

Transparent Table: ZTENDER_VENDORActive
Short Description: VENDOR MAPPING

AttributesDelivery and MaintenanceFieldsInput Help/CheckCurrency/Quantity FieldsIndexes

FieldKeyInit...Data elementData TypeLengthDecim...CoordinateShort DescriptionGroup

☐MANDT☒☒MANDTCLNT300Client

☐TENDER_ID☒☒ZDE_TENDER_IDCHAR2000TENDER ID

☐LIFNR☒☒LIFNRCHAR1000Account Number of Supplier

☐BID_STATUS☐☐ZDE_STATUSCHAR1000Error Indicator

☐TECH_SCORE☐☐ZSCOREDEC500Technical Score

☐CURRENCY☐☐WAERSCUKY500Currency Key

☐PRICE☐☐ZPRICECURR15200BID PRICE

☐PAN_NO☐☐ZPANCHAR1000Vendor PAN

☐REGION☐☐REGIOCHAR300Region (State, Province, County)

☐CERT_TYPE☐☐ZCERTCHAR2000Certificate Type

☐CERT_VALID_TO☐☐DATSDATS800Field of type DATS

☐VENDOR_STAUTS☐☐ZSTATUSCHAR1000Vendor Status

4.4 ZTENDER_AUDIT – Audit Trail

Screenshot Placeholder – SE11 ZTENDER_AUDIT

SAP Dictionary: Display Table

Transparent Table: ZTENDER_AUDIT Active
Short Description: AUDIT TRAIL

Attributes Delivery and Maintenance Fields Input Help/Check Currency/Quantity Fields Indexes

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Field	Key	Initi...	Data element	Data Type	Length	Decim...	Coordinate	Short Description	Group
<input type="checkbox"/> MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0		0 Client	
<input type="checkbox"/> TENDER_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZDE_TENDER_ID	CHAR	20	0		0 TENDER ID	
<input type="checkbox"/> ACTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZACTION	CHAR	20	0		0 ACTION	
<input type="checkbox"/> USER_NAME	<input type="checkbox"/>	<input type="checkbox"/>	UNAME	CHAR	12	0		0 User Name	
<input type="checkbox"/> ACTION_DT	<input type="checkbox"/>	<input type="checkbox"/>	TIMESTAMP	DEC	15	0		0 UTC Time Stamp in Short Form (YYYYMMDDhhmmss)	

4.5 ZTENDER_INVOICE

Screenshot Placeholder – SE11 ZTENDER_INVOICE

SAP Dictionary: Display Table

Transparent Table: ZTENDER_INVOICE Active
Short Description: CREATE INVOICE TABLE

Attributes Delivery and Maintenance Fields Input Help/Check Currency/Quantity Fields Indexes

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Field	Key	Initi...	Data element	Data Type	Length	Decim...	Coordinate	Short Description	Group
<input type="checkbox"/> MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0		0 Client	
<input type="checkbox"/> INVOICE_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZDE_INVOICE_ID	CHAR	30	0		0 INVOICE ID	
<input type="checkbox"/> TENDER_ID	<input type="checkbox"/>	<input type="checkbox"/>	ZDE_TENDER_ID	CHAR	20	0		0 TENDER ID	
<input type="checkbox"/> PO_NO	<input type="checkbox"/>	<input type="checkbox"/>	EBELN	CHAR	10	0		0 Purchasing Document Number	
<input type="checkbox"/> LIENR	<input type="checkbox"/>	<input type="checkbox"/>	LIENR	CHAR	10	0		0 Account Number of Supplier	
<input type="checkbox"/> AMOUNT	<input type="checkbox"/>	<input type="checkbox"/>	WRBTR	CURR	23	2		0 Amount in document currency	
<input type="checkbox"/> CURR	<input type="checkbox"/>	<input type="checkbox"/>	WAERS	CUKY	5	0		0 Currency Key	
<input type="checkbox"/> STATUS	<input type="checkbox"/>	<input type="checkbox"/>	ZDE_INV_STATUS	CHAR	15	0		0 INVOICE STATUS	
<input type="checkbox"/> CREATED_BY	<input type="checkbox"/>	<input type="checkbox"/>	UNAME	CHAR	12	0		0 User Name	
<input type="checkbox"/> CREATED_ON	<input type="checkbox"/>	<input type="checkbox"/>	DATS	DATS	8	0		0 Field of type DATS	

4.6 ZTENDER_GR

Screenshot Placeholder – SE11 ZTENDER_GR

Transparent Table: ZTENDER_GR Active
Short Description: Goods Receipt

Attributes Delivery and Maintenance Fields Input Help/Check Currency/Quantity Fields Indexes

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Field	Key	Initi...	Data element	Data Type	Length	Decim...	Coordinate	Short Description	Group
<input type="checkbox"/> MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0		0 Client	
<input type="checkbox"/> TENDER_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZDE_TENDER_ID	CHAR	20	0		0 TENDER ID	
<input type="checkbox"/> PO_NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EBELN	CHAR	10	0		0 Purchasing Document Number	
<input type="checkbox"/> GR_NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZDE_GR_NO	CHAR	20	0		0 Goods Receipt Number	
<input type="checkbox"/> GR_DATE	<input type="checkbox"/>	<input type="checkbox"/>	DATS	DATS	8	0		0 Field of type DATS	
<input type="checkbox"/> GR_STATUS	<input type="checkbox"/>	<input type="checkbox"/>	ZDE_GR_STATUS	CHAR	20	0		0 STATUS RECEIVED	
<input type="checkbox"/> CREATED_BY	<input type="checkbox"/>	<input type="checkbox"/>	SYUNAME	CHAR	12	0		0 User Name	
<input type="checkbox"/> CREATED_ON	<input type="checkbox"/>	<input type="checkbox"/>	DATS	DATS	8	0		0 Field of type DATS	

4.7 ZTENDER_CERT – Certification Clearance

Screenshot Placeholder – SE11 ZTENDER_CERT

Transparent Table: ZTENDER_CERT Active
Short Description: Certification clearance

Attributes Delivery and Maintenance Fields Input Help/Check Currency/Quantity Fields Indexes

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Field	Key	Initi...	Data element	Data Type	Length	Decim...	Coordinate	Short Description	Group
<input type="checkbox"/> MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0		0 Client	
<input type="checkbox"/> TENDER_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZDE_TENDER_ID	CHAR	20	0		0 TENDER ID	
<input type="checkbox"/> CERT_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZDE_CERT_ID	CHAR	20	0		0 Certificate ID	
<input type="checkbox"/> CERT_TYPE	<input type="checkbox"/>	<input type="checkbox"/>	ZDE_CERT_TYPE	CHAR	20	0		0 Certificate TYPE	
<input type="checkbox"/> CERT_STATUS	<input type="checkbox"/>	<input type="checkbox"/>	ZDE_CERT_STATUS	CHAR	20	0		0 Certificate STATUS	
<input type="checkbox"/> APPROVED_BY	<input type="checkbox"/>	<input type="checkbox"/>	UNAME	CHAR	12	0		0 User Name	
<input type="checkbox"/> APPROVED_ON	<input type="checkbox"/>	<input type="checkbox"/>	DATS	DATS	8	0		0 Field of type DATS	

PROGRAM-WISE TECHNICAL DESIGN

5.1 ZPR_TO_TENDER

Purpose: Create Tender from Purchase Requisition

Logic:

1. Read PR from EBAN
2. Generate Tender ID
3. Insert into Header & Item tables
4. Create Audit Log

Screenshot Placeholder – Program Execution

```
1 | *-----*
2 | * Report ZPR_TO_TENDER
3 | *-----*
4 |
5 | * Program Name : ZPR_TO_TENDER
6 | * Description : Create Tender from Purchase Requisition
7 | *-----*
8 |
9 | REPORT ZPR_TO_TENDER.
10 |
11 | *-----*
12 | * SELECTION SCREEN
13 | *-----*
14 | * User PR number enter
15 | *-----*
16 |
17 | PARAMETERS: p_pr_no TYPE ebans-banfpo OBLIGATORY.
18 |
19 | *-----*
20 | * DATA DECLARATIONS
21 | *-----*
22 |
23 | DATA: ls_hdr TYPE tender_hdr,
24 |       ls_item TYPE tender_item.
25 |
26 | *Internal table to store PR items
27 | DATA: lt_eban TYPE TABLE OF ebans,
28 |       ls_eban TYPE ebans.
29 |
30 | *Tender ID variable
31 | DATA: lv_tender_id TYPE tender_hdr-tender_id.
32 |
33 | *-----*
34 | * START OF SELECTION
35 | *-----*
36 | START-OF-SELECTION.
37 |
38 | *-----*
39 | * STEP 1: READ PR DATA FROM EBAN
40 | *-----*
41 |
42 | DATA lv_existing_tender TYPE tender_hdr-tender_id.
43 |
44 | SELECT SINGLE tender_id
45 | FROM tender_hdr
46 | INTO lv_existing_tender.
47 |
48 | *-----*
49 | * STEP 2: GENERATE UNIQUE TENDER ID
50 | *-----*
51 |
52 | * Format: TND-YYYYMMDD-HHMMSS
53 |
54 | lv_tender_id = |TND-| sy-datum |-( sy-useit )|.
55 |
56 | *-----*
57 | * STEP 3: INSERT DATA INTO TENDER HEADER TABLE
58 | *-----*
59 |
60 | CLEAR ls_hdr.
61 |
62 | ls_hdr-tender_id = lv_tender_id.
63 | ls_hdr-pr_no = p_pr_no.
64 | ls_hdr-doc_type = 'RFQ'.
65 | ls_hdr-status = 'CREATED'.
66 | ls_hdr-created_by = sy-uname.
67 | ls_hdr-created_on = sy-datum.
68 | ls_hdr-changed_by = sy-uname.
69 | ls_hdr-changed_on = sy-datum.
70 |
71 | INSERT tender_hdr FROM ls_hdr.
72 |
73 | DATA ls_audit TYPE tender_audit.
74 |
75 | CLEAR ls_audit.
76 |
77 | ls_audit-tender_id = lv_tender_id.
78 | ls_audit-action = 'TENDER_CREATED'.
79 | ls_audit-user_name = sy-uname.
80 | GET TIME STAMP FIELD ls_audit-action_dt.
81 |
82 | INSERT tender_audit FROM ls_audit.
83 |
84 | *-----*
85 | * IF sy-subrc <> 0.
86 | *-----*
87 | MESSAGE 'Error while inserting Tender Header' TYPE 'E'.
88 | ENDIF.
89 |
90 | *-----*
91 | * STEP 4: INSERT PR ITEMS INTO TENDER ITEM TABLE
92 | *-----*
93 |
94 | LOOP AT lt_eban INTO ls_eban.
95 |
96 | CLEAR ls_item.
97 |
98 | ls_item-tender_id = lv_tender_id.
99 | ls_item-item_no = ls_eban-banfpo.
100 | ls_item-matnr = ls_eban-matnr.
101 | ls_item-meins = ls_eban-meins.
102 | ls_item-menge = ls_eban-menge.
103 | ls_item-delivery_date = ls_eban-lfdat. *Correct PR delivery date
104 |
105 | INSERT tender_item FROM ls_item.
106 |
107 | *-----*
108 | * IF sy-subrc <> 0.
109 | *-----*
110 | MESSAGE 'Error inserting Tender Item' TYPE 'E'.
111 | ENDIF.
112 |
113 | ENDLOOP.
114 |
115 | *-----*
116 | * STEP 5: COMMIT WORK
117 | *-----*
118 |
119 | COMMIT WORK.
120 |
121 | *-----*
122 | * STEP 6: SUCCESS MESSAGE
123 | *-----*
124 |
125 | MESSAGE |Tender ( lv_tender_id ) created successfully| TYPE 'S'.
126 |
```

P_PR_NO:*

5.2 ZTENDER_VENDOR_SELECT

Purpose: Map vendors to Tender

Screenshot Placeholder – Vendor Mapping Screen

```
1  *-----*
2  *s Report ZTENDER_VENDOR_SELECT
3  *s-----*
4
5  REPORT ZTENDER_VENDOR_SELECT.
6
7  *-----*
8  * Program Name : ZTENDER_VENDOR_SELECT
9  * Description  : Vendor Selection & Validation for Tender
10 *-----*
11
12
13
14 *-----*
15 * Selection Screen
16 *-----*
17 PARAMETERS: p_tender TYPE stender_hdr-tender_id OBLIGATORY,
18              p_ekorg  TYPE ekorg OBLIGATORY.
19
20 *-----*
21 * Data Declarations
22 *-----*
23 DATA: lt_lfml TYPE TABLE OF lfml,
24        ls_lfml TYPE lfml.
25
26 DATA: ls_lfal TYPE lfal.
27 DATA: ls_vendor TYPE stender_vendor.
28 DATA: lv_count TYPE i.
29
30 *-----*
31 * Start of Selection
32 *-----*
33 START-OF-SELECTION.
34
35 *-----*
36 * Step 1: Validate Tender
37 *-----*
38 SELECT SINGLE tender_id
39 FROM stender_hdr
40 INTO @DATA(lv_tender)
41 WHERE tender_id = @p_tender.
42
43 IF sy-subrc <> 0.
44 MESSAGE 'Tender ID does not exist' TYPE 'E'.
45 ENDIF.
46
47 *-----*
48 * Step 2: Fetch Vendors from LFMI
49 *-----*
50 SELECT *
51 FROM lfml
52 INTO TABLE lt_lfml
53 WHERE ekorg = p_ekorg
54        AND loevm = space. "Not deleted
55
56 IF sy-subrc <> 0.
57 MESSAGE 'No vendors found for Purchasing Org' TYPE 'E'.
58 ENDIF.
59
60 *-----*
61 * Step 3: Vendor Validation & Insert (UPDATED)
62 *-----*
63 CLEAR lv_count.
64
65 LOOP AT lt_lfml INTO ls_lfml.
66
67     "Fetch Vendor Master (Not Blocked)
68     SELECT SINGLE *
69     FROM lfal
70     INTO ls_lfal
71     WHERE lifnr = ls_lfml-lifnr
72            AND sperr = space.
73
74     IF sy-subrc = 0.
75
76         CLEAR ls_vendor.
77
78         "Key Fields
79         ls_vendor-tender_id = p_tender.
80         ls_vendor-lifnr     = ls_lfal-lifnr.
81
82         "Bid & Vendor Status
83         ls_vendor-bid_status = 'INVITED'.
84         ls_vendor-VENDOR_STAUS = 'ACTIVE'.
85
86         "Commercial Defaults
87         ls_vendor-tech_score = 0.
88         ls_vendor-currency   = 'INR'.
89         ls_vendor-price      = 0.
90
91     ENDIF.
92
93     "PAN Number
94     ls_vendor-pan_no = ls_lfal-stdcl.
95
96     "Region
97     ls_vendor-region = ls_lfal-regio.
98
99     "Certificate Validity (1 year)
100    ls_vendor-cert_valid_to = sy-datum + 365.
101
102     "Insert Vendor Mapping
103    INSERT stender_vendor FROM ls_vendor.
104
105    IF sy-subrc = 0.
106        lv_count = lv_count + 1.
107    ENDIF.
108
109 ENDIF.
110
111 ENDLOOP.
112
113 *-----*
114 * Step 4: Commit & Message
115 *-----*
116 COMMIT WORK.
117
118 MESSAGE || lv_count } vendors mapped to Tender { p_tender }| TYPE 'S'.
```

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P_TENDER*

P_EKORG*

5.3 ZTENDER_BID_EVAL

Purpose: Bid evaluation & L1 selection

Screenshot Placeholder – Bid Evaluation ALV

```
1  *% Report ZTENDER_BID_EVAL
2  *-----
3  *% Program Name : ZTENDER_BID_EVAL
4  *% Description : Bid Evaluation & L1 Selection (ALV)
5  *%-----
6  REPORT ZTENDER_BID_EVAL.
7
8
9
10 *-----
11 * SELECTION SCREEN
12 *-----
13 PARAMETERS: p_tender TYPE stender_hdr-tender_id OBLIGATORY.
14
15 *-----
16 * DATA DECLARATIONS
17 *-----
18
19 *Internal table for vendor bids
20 DATA: lt_vendor TYPE TABLE OF stender_vendor,
21       ls_vendor TYPE stender_vendor.
22
23 *Work area for L1 logic
24 DATA: lv_min_price TYPE stender_vendor-price,
25       lv_l1_vendor TYPE stender_vendor-lifnr.
26
27 *-----
28 * START OF SELECTION
29 *-----
30 START-OF-SELECTION.
31
32 *-----
33 * STEP 1: CHECK TENDER EXISTS
34 *-----
35 SELECT SINGLE tender_id
36 FROM stender_hdr
37 INTO @DATA(lv_chk)
38 WHERE tender_id = @p_tender.
39
40 IF sy-subrc <> 0.
41   MESSAGE 'Tender not found' TYPE 'E'.
42 ENDIF.
43
44 *-----
45 * STEP 2: READ VENDOR BIDS FOR TENDER
46 *-----
47 SELECT *
48 FROM stender_vendor
49 INTO TABLE ls_vendor
50 WHERE tender_id = p_tender
51 AND bid_status = 'QUALIFIED'.
52
53 IF sy-subrc <> 0.
54   MESSAGE 'No qualified vendors found' TYPE 'E'.
55 ENDIF.
56
57 *-----
58 * STEP 3: FIND L1 (LOWEST PRICE)
59 *-----
60 CLEAR lv_min_price.
61
62 LOOP AT ls_vendor INTO ls_vendor.
63   IF lv_min_price IS INITIAL OR ls_vendor-price < lv_min_price.
64     lv_min_price = ls_vendor-price.
65     lv_l1_vendor = ls_vendor-lifnr.
66   ENDIF.
67 ENDLOOP.
68
69 *-----
70 * STEP 4: UPDATE BID STATUS
71 *-----
72 LOOP AT ls_vendor INTO ls_vendor.
73   IF ls_vendor-lifnr = lv_l1_vendor.
74     ls_vendor-bid_status = 'L1'.
75   ELSE.
76     ls_vendor-bid_status = 'QUALIFIED'.
77   ENDIF.
78   UPDATE stender_vendor FROM ls_vendor.
79 ENDLOOP.
80
81 COMMIT WORK.
82
83 *-----
84 * STEP 5: DISPLAY ALV REPORT
85 *-----
86 PERFORM display_alv.
87
88 *-----
89 * FORM TO DISPLAY ALV
90 *-----
91 FORM display_alv.
92
93   DATA: lo_alv TYPE REF TO cl_salv_table.
94
95   TRY.
96     cl_salv_table=>factory(
97       IMPORTING
98         r_salv_table = lo_alv
99       CHANGING
100         t_table      = ls_vendor ).
101
102     lo_alv->get_functions( )->set_all( abap_true ).
103     lo_alv->get_columns( )->set_optimize( abap_true ).
104
105     lo_alv->display( ).
106
107   CATCH cx_salv_msg.
108     MESSAGE 'Error displaying ALV' TYPE 'E'.
109   ENDTRY.
110
111 ENDFORM.
```

P_TENDER.*

5.4 ZTENDER_PO_CREATE

Purpose: Create Purchase Order using BAPI

BAPI Used: BAPI_PO_CREATE1

Key Validations:

- Account Assignment = K
- Cost Center mandatory
- Plant & Company Code consistency

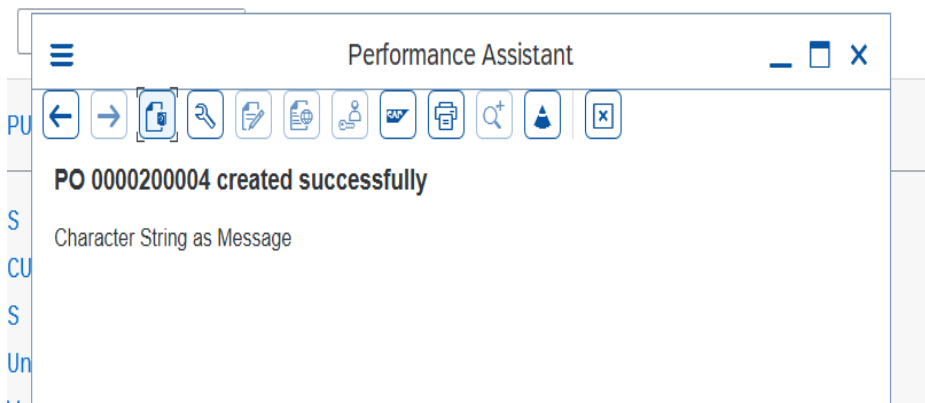
Screenshot Placeholder – PO Created

```
1  *-----*
2  * Report ZTENDER_PO_CREATE
3  *-----*
4  * Description : Create PO using Service / Cost Center approach
5  *-----*
6  REPORT ztender_po_create.
7
8  *-----*
9  * Selection Screen
10 *-----*
11
12 PARAMETERS: p_tender TYPE tender_hdr-tender_id OBLIGATORY.
13
14 *-----*
15 * Data Declarations
16 *-----*
17
18 *Vendor (LI)
19 DATA: ls_vendor TYPE tender_vendor.
20
21 *Tender items
22 DATA: lt_items TYPE TABLE OF tender_item,
23       ls_item TYPE tender_item.
24
25 *BAPI Header
26 DATA: ls_poheader TYPE bapinepoheader,
27       ls_poheaderx TYPE bapinepoheaderx.
28
29 *BAPI Item
30 DATA: lt_poitem TYPE TABLE OF bapinepoitem,
31       ls_poitem TYPE bapinepoitem,
32       lt_poitemx TYPE TABLE OF bapinepoitemx,
33       ls_poitemx TYPE bapinepoitemx.
34
35 *Return messages
36 DATA: lt_return TYPE TABLE OF bapiret2,
37       lv_po TYPE bapinepoheader-po_number,
38       lv_error TYPE abap_bool VALUE abap_false.
39
40 *-----*
41 * Start of Selection
42 *-----*
43
44 * STEP 1: Get LI Vendor
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```

173     sel po_no = lv_po
174     WHERE tender_id = p_tender.
175
176
177
178     COMMIT WORK.
179
180     MESSAGE |PO { lv_po } created successfully| TYPE 'S'.
181
182 ELSE.
183     MESSAGE 'PO creation blocked due to system validation' TYPE 'E'.
184 -ENDIF.

```



5.5 ZTENDER_GR_CONFIRM

Purpose: Record Goods Receipt

```
1  |-----*
2  | * Report ZTENDER_GR_CONFIRM
3  | *-----*
4  | *
5  | *-----*
6  | REPORT ZTENDER_GR_CONFIRM.
7
8  | PARAMETERS: p_tender TYPE ztender_hdr-tender_id OBLIGATORY.
9
10 | DATA: lv_po TYPE eheln,
11 |         lv_gr TYPE char20,
12 |         ls_gr TYPE ztender_gr,
13 |         ls_audit TYPE ztender_audit.
14
15 |-----*
16 | * Step 1: Check Tender & PO
17 | *-----*
18 | SELECT SINGLE po_no
19 |   FROM ztender_hdr
20 |  INTO lv_po
21 | WHERE tender_id = p_tender.
22
23 | IF lv_po IS INITIAL.
24 |   MESSAGE 'PO not found. Cannot confirm GR' TYPE 'E'.
25 | ENDIF.
26
27 |-----*
28 | * Step 2: Generate GR No
29 | *-----*
30 | lv_gr = |GR-| sy-datum | - | sy-uzeit ||.
31
32 |-----*
33 | * Step 3: Insert GR Record
34 | *-----*
35 | CLEAR ls_gr.
36 | ls_gr-tender_id = p_tender.
37 | ls_gr-po_no     = lv_po.
38 | ls_gr-gr_no     = lv_gr.
39 | ls_gr-gr_date   = sy-datum.
40 | ls_gr-gr_status = 'RECEIVED'.
41 | ls_gr-created_by = sy-uname.
42 | ls_gr-created_on = sy-datum.
43
44 | INSERT ztender_gr FROM ls_gr.
45
46 |-----*
47 | * Step 4: Update Tender Status
48 | *-----*
49 | UPDATE ztender_hdr
50 |   SET status = 'GR_CONF'
51 |  WHERE tender_id = p_tender.
52
53 |-----*
54 | * Step 5: Audit Log
55 | *-----*
56 | CLEAR ls_audit.
57 | ls_audit-tender_id = p_tender.
58 | ls_audit-action    = 'GR CONFIRMED'.
59 | ls_audit-user name = sy-uname.
60 | GET TIME STAMP FIELD ls_audit-action_dt.
61
62 | INSERT ztender_audit FROM ls_audit.
63
64 | COMMIT WORK.
65
66 | MESSAGE |GR | lv_gr | confirmed successfully| TYPE 'S'.
```

5.6 ZTENDER_INVOICE_CREATE

Purpose: Create Invoice for L1 Vendor

Screenshot Placeholder – Invoice Created

```
1  REPORT ZTENDER_INVOICE_CREATE.
2
3  *-----*
4  * Selection Screen
5  *-----*
6  PARAMETERS: p_tender TYPE ztender_hdr-tender_id OBLIGATORY.
7
8  *-----*
9  * Data Declarations
10 *-----*
11 DATA: ls_vendor TYPE ztender_vendor,
12       ls_invoice TYPE ztender_invoice,
13       lv_inv_id TYPE char30,
14       lv_po TYPE ebeln.
15
16 *-----*
17 * Step 1: Get L1 Vendor (FINAL SELECTED VENDOR)
18 *-----*
19 SELECT SINGLE *
20 FROM ztender_vendor
21 INTO ls_vendor
22 WHERE tender_id = p_tender
23 AND bid_status = 'L1'.
24
25 IF sy-subrc <> 0.
26 MESSAGE 'L1 vendor not found for this Tender' TYPE 'E'.
27 ENDIF.
28
29 *-----*
30 * Step 2: Get PO Number from Tender Header
31 *-----*
32 SELECT SINGLE po_no
33 FROM ztender_hdr
34 INTO lv_po
35 WHERE tender_id = p_tender.
36
37 IF lv_po IS INITIAL.
38 MESSAGE 'PO not created for this Tender' TYPE 'E'.
39 ENDIF.
40
41 *-----*
42 * Step 3: Generate Invoice ID
43 *-----*
44 lv_inv_id = |INV-{ sy-datum }-{ sy-uzeit }|.
45
46 *-----*
47 * Step 4: Create Invoice Record
48 *-----*
49 CLEAR ls_invoice.
50
51 ls_invoice-invoice_id = lv_inv_id.
52 ls_invoice-tender_id = p_tender.
53 ls_invoice-po_no = lv_po.
54 ls_invoice-lifnr = ls_vendor-lifnr.
55 ls_invoice-amount = ls_vendor-price.
56 ls_invoice-curr = 'INR'.
57 ls_invoice-status = 'CREATED'.
58 ls_invoice-created_by = sy-uname.
59 ls_invoice-created_on = sy-datum.
60
61 INSERT ztender_invoice FROM ls_invoice.
62
63 IF sy-subrc <> 0.
64 MESSAGE 'Invoice creation failed' TYPE 'E'.
65 ENDIF.
66
67 *-----*
68 * Step 5: Audit Log
69 *-----*
70 DATA ls_audit TYPE ztender_audit.
71
72 CLEAR ls_audit.
73 ls_audit-tender_id = p_tender.
74 ls_audit-action = 'INVOICE_CREATED'.
75 ls_audit-user_name = sy-uname.
76 GET TIME STAMP FIELD ls_audit-action_dt.
77
78 INSERT ztender_audit FROM ls_audit.
79
80 *-----*
81 * Step 6: Commit & Success Message
82 *-----*
83 COMMIT WORK.
84
85 MESSAGE |Invoice { lv_inv_id } created successfully| TYPE 'S'.
```

◆ 5.7 ZTENDER_CERT_CLEAR

Purpose: Quality / Compliance Certificate Clearance

Screenshot Placeholder – Certificate Approval

```
1  REPORT ztender_cert_clear.
2
3  *-----*
4  * Selection Screen
5  *-----*
6  PARAMETERS:
7      p_tender TYPE ztender_hdr-tender_id OBLIGATORY,
8      p_type   TYPE char20 OBLIGATORY. "QUALITY / COMPLIANCE
9
10 *-----*
11 * Data Declarations
12 *-----*
13 DATA:
14     ls_cert TYPE ztender_cert,
15     ls_hdr  TYPE ztender_hdr.
16
17 *-----*
18 * Step 1: Validate Tender
19 *-----*
20 SELECT SINGLE *
21 FROM ztender_hdr
22 INTO @ls_hdr
23 WHERE tender_id = @p_tender.
24
25 IF sy-subrc <> 0.
26     MESSAGE 'Invalid Tender ID' TYPE 'E'.
27 ENDIF.
28
29 *-----*
30 * Step 2: Validate Certificate Type
31 *-----*
32 IF p_type <> 'QUALITY'
33     AND p_type <> 'COMPLIANCE'.
34     MESSAGE 'Invalid Certificate Type' TYPE 'E'.
35 ENDIF.
36
37 *-----*
38 * Step 3: Insert Certificate Clearance
39 *-----*
40 CLEAR ls_cert.
41
42 ls_cert-tender_id = p_tender.
43 ls_cert-cert_id   = |CERT-| sy-datum |-| sy-uzzeit ||.
44 ls_cert-cert_type = p_type.
45 ls_cert-cert_status = 'APPROVED'.
46 ls_cert-approved_by = sy-uname.
47 ls_cert-approved_on = sy-datum.
48
49 INSERT ztender_cert FROM ls_cert.
50
51 IF sy-subrc <> 0.
52     MESSAGE 'Certificate clearance failed' TYPE 'E'.
53 ENDIF.
54
55 *-----*
56 * Step 4: Audit Log
57 *-----*
58 DATA ls_audit TYPE ztender_audit.
59
60 CLEAR ls_audit.
61 ls_audit-tender_id = p_tender.
62 ls_audit-action    = 'CERT_APPROVED'.
63 ls_audit-user_name = sy-uname.
64 GET TIME STAMP FIELD ls_audit-action_dt.
65
66 INSERT ztender_audit FROM ls_audit.
67
68 *-----*
69 * Step 5: Commit
70 *-----*
71 COMMIT WORK.
72
73 MESSAGE 'Certificate cleared successfully' TYPE 'S'.
```

6 AUDIT LOGGING

Table: ZTENDER_AUDIT

Captured Actions:

- TENDER_CREATED
- VENDORS_INVITED
- L1_SELECTED
- PO_CREATED



Search in Table:

AUDIT TRAIL

Number of Hits:

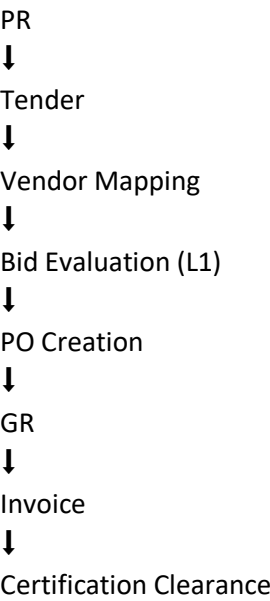
Runtime:
Maximum No. of Hits

Insert Column:

TENDER_ID	ACTION	User Name	Time Stamp
<input type="checkbox"/> TND-20260110-123127	L1_SELECTED	ANIKET	20,260,111,102,545
<input type="checkbox"/> TND-20260110-123127	PO_CREATED	ANIKET	20,260,111,102,545
<input type="checkbox"/> TND-20260110-123127	TENDER_CREATED	ANIKET	20,260,110,085,518
<input type="checkbox"/> TND-20260110-123127	VENDORS_INVITED	ANIKET	20,260,111,102,545

END-TO-END PROCESS FLOW



ERROR HANDLING & VALIDATION

- Tender existence checks
- Vendor status validation
- BAPI return message handling
- Mandatory field validation
- User-friendly error messages

TESTING SUMMARY

Scenario	Result
Tender Creation	Pass
Vendor Selection	Pass
L1 Evaluation	Pass
PO Creation	Pass
GR	Pass
Invoice	Pass

Scenario


Result

Certification

Pass

Audit Log

Pass

	TENDER_ID	Purch.Req.	Pur. Doc.	OT...	STATUS_E	Created	Created On	By	Changed On	
<input checked="" type="checkbox"/>	TND-20260104-193847	10001515		RFQ	CREATED	ANIKET	01/04/2026	ANIKET	01/04/2026	
<input type="checkbox"/>	TND-20260107-124840	10001519		RFQ	RFQ_CREATE	ANIKET	01/07/2026	ANIKET	01/07/2026	
<input type="checkbox"/>	TND-20260110-123127	10001521	200003	RFQ	GR_CONF	ANIKET	01/10/2026	ANIKET	01/10/2026	

VENDER MAPPING

Search in Table: ZTENDER_VENDOR

Number of Hits: 8

Runtime: 0 Maximum No. of Hits 500

Insert Column:

TENDER_ID	Supplier	STATUS_E TSCO...	Cr...	B_PRICE	P...	Rg CE...	Date	STATUS
TND-20260107-124840	100101	QUALIFIED	0 INR	1,000.00		TG	01/09/2027	ACTIVE
TND-20260107-124840	100102	L1	0 INR	950.00		TG	01/09/2027	ACTIVE
TND-20260107-124840	100111	INVITED	0 INR	0.00		TG	01/09/2027	ACTIVE
TND-20260107-124840	100112	INVITED	0 INR	0.00		TG	01/09/2027	ACTIVE
TND-20260110-123127	100101	QUALIFIED	0 INR	2,000.00		TG	01/10/2027	ACTIVE
TND-20260110-123127	100102	QUALIFIED	0 INR	1,500.00		TG	01/10/2027	ACTIVE
TND-20260110-123127	100111	L1	0 INR	1,000.00		TG	01/10/2027	ACTIVE
TND-20260110-123127	100112	INVITED	0 INR	0.00		TG	01/10/2027	ACTIVE



<div> <div> <div><</div> <div>SAP</div> </div> <div>BID EVALUATION & L1 SELECTION</div> </div>										
<div> <div> <div></div> <div>▼</div> </div> <div> <div>🔍</div> <div>📊</div> <div>☰</div> <div>☷</div> <div>🔼</div> <div>Σ</div> <div>📄</div> <div>📄✕</div> <div>📄</div> <div>✉</div> <div>🔲</div> <div>More ▼</div> </div> </div>										
Cli...	TENDER_ID	Supplier	STATUS_ETSCO...	Curren...	BP P...	Regi...	CE...	Date	STATUS	
100	TND-20260110-123127	100101	QUALIFIED	0 INR	2,000.00	TG		01/10/2027	ACTIVE	
100	TND-20260110-123127	100102	QUALIFIED	0 INR	1,500.00	TG		01/10/2027	ACTIVE	

Search in Table: Goods Receipt

Number of Hits:

Runtime: Maximum No. of Hits

Insert Column:



TENDER_ID	Pur. Doc.	Goods Receipt Number	Date	STATUS	User	Date
<input type="checkbox"/> TND-20260110-123127	200003	GR-20260111-153927	01/11/2026	RECEIVED	ANIKET	01/11/2026

Search in Table: CREATE INVOICE TABLE



Number of Hits:

Runtime: Maximum No. of Hits

Insert Column:

Invoice Identification	TENDER_ID	Purchasing Doc.	Supplier	Amount	Currency	INV STATUS	User	Date
<input type="checkbox"/> INV-20260111-122908	TND-20260110-123127	200003	100111	1,000.00	INR	CREATED	ANIKET	01/11/2026



TENDER_ID	Certificate ID	CERT_TY...	CERT_S	User	Date
<input type="checkbox"/> TND-20260110-123127	<input type="text" value="CERT-20260111-154328"/>	QUALITY	APPROVED	ANIKET	01/11/2026

Search in Table:

Number of Hits:

Runtime: Maximum No. of Hits

Insert Column:

TENDER_ID	ACTION	User	Time Stamp
<input type="checkbox"/> TND-20260110-123127	L1_SELECTED	ANIKET	20,260,111,102,545
<input type="checkbox"/> TND-20260110-123127	PO_CREATED	ANIKET	20,260,111,102,545
<input type="checkbox"/> TND-20260110-123127	TENDER_CREATED	ANIKET	20,260,110,085,518
<input type="checkbox"/> TND-20260110-123127	VENDORS_INVITED	ANIKET	20,260,111,102,545

CONCLUSION

In this project, I worked on developing an E-Tender Management System using SAP ABAP. The main goal of the project was to understand and implement the complete procurement process in SAP, starting from Purchase Requisition up to Invoice and Certification clearance.

Through this project, I implemented tender creation from PR, vendor selection, bid evaluation and L1 selection, purchase order creation using standard SAP BAPI, goods receipt entry, invoice creation, and certification clearance. I also maintained an audit log to track every important activity in the process, which helps in transparency and future reference.

This project helped me gain practical experience in ABAP programming, custom table design, and integration with SAP MM processes. I also learned how to handle validations, error handling, and end-to-end testing of a real business flow. Overall, this project improved my understanding of SAP procurement and strengthened my technical and problem-solving skills as a fresher ABAP developer.