

FUNCTIONAL SPECIFICATION HM SAMPOERNA INDONESIA SKTI



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SKTIS Plant Production Planning - Functional Specification
1.0.docxn

Version: [1.0 September/2015]

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General Reference

Development ID:	
GAP ID / L4 ID:	
Functional Owner:	PT. HM Sampoerna, Tbk
Technical Owner:	PT. Vox Teneo Indonesia
Author:	Utari Poerbasari

Business Reference

Business Requirements Documents in Functional Specification:

-

Document Versions and Key Changes

Version	Issue Date	Key Changes	Author	File Name
1.0	29/09/2015	Initial Documents	Utari Poerbasari	SKTIS Production Planning - Functional Specification 1.0

Approved By

Version	Approval Date	Name	Function	Signature [or e-mail / workflow]
1.0				



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Legend

IMPORTANT: All paragraphs titles have been marked with a 'code', defining which stakeholder is responsible for completing the paragraph. Please find below explanation of the codes, as well as their roles in the process flow.

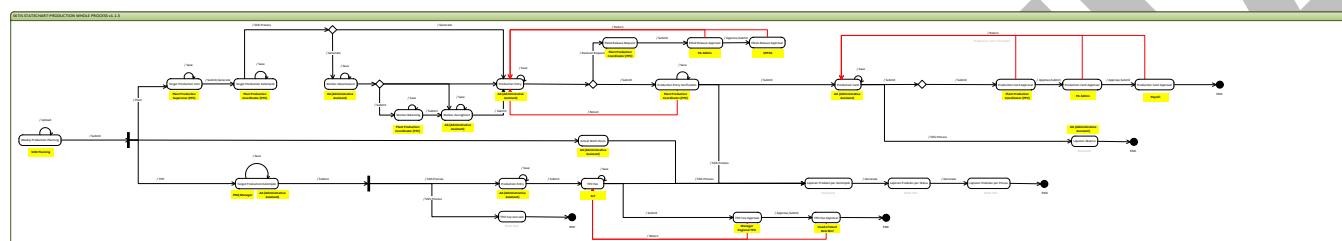
FO	Functional Owner
TO	Technical Owner



1 Management Summary (FO)

The module of SKTIS to cascade weekly production target of a Plant down to detail daily production target of each unit, group and worker.

2 Process Flow / Context (FO)



There are 6 processes in Production Planning at SKT Plant:

1. Weekly Production Planning (WPP)
2. Plant Target Production Unit (TPU)
3. Plant Production Group Target (TPK)
4. Group Shift Assignment
5. Individual Capacity All Work Hours
6. Individual Capacity By References

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3 Functional Requirements (FO + TO)

3.1 Description of the development (FO)

3.1.1 Weekly Production Planning (WPP)

Description:

The production planning which approved by operation management. The production planning should be aligned with Plant Target Production Unit (TPU) and TPO Production Group Target (TPK).

User Interface (UI): Excel-like in Internet Explorer v.11

Brand	Location	38	39	40	41	42	43	44	45	46	47	48	49	50
FA010786.13	ID21	20,952	20,952	18,336	20,952	14,676	20,952	20,952	20,952	20,952	24,952	20,952	20,952	20,952
FA010786.13	ID22	18,336	20,952	14,676	20,952	20,952	20,952	18,336	20,952	20,952	20,952	20,952	20,952	20,952
FA010786.13	ID23	20,952	18,336	20,952	14,676	20,952	20,952	14,676	20,952	20,952	20,952	20,952	20,952	20,952
FA010786.13	ID24	23,568	15,72	27,228	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
FA010786.13	ID25	26,707	11,534	35,805	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
FA010786.13	ID26	29,846	7,348	44,383	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
FA010786.13	ID27	31,416	5,256	48,672	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
FA010786.13	ID30	32,985	5,256	52,96	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
FA010786.13	ID31	34,555	5,256	57,246	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
FA010786.13	ID34	36,124	5,256	61,584	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952

Figure 3. 1 Weekly Production Planning (WPP)

Other User Interface Affected: Brand Group Popup

	Brand Group Code	Brand Code	Description
<input type="checkbox"/>	DSS12SR-20	FA010783.14	DJI SAM SOE KRETEK 14
<input type="checkbox"/>	DSS12SR-5	FA010786.12	DJI SAM SOE KRETEK 12
<input type="checkbox"/>	DSS12SR-5	FA010786.13	DJI SAM SOE KRETEK 13
<input type="checkbox"/>	DSS16SR-20	FA010783.15	DJI SAM SOE KRETEK 15

Figure 3. 2 Brand Group Popup



Output:

1. Calculated daily production target of each production unit in Target Production Unit (TPU) page
2. Calculated daily production target of each production group in TPO Production Group Target (TPK) based on daily working hours
3. Send e-mail notification to Target Production Unit (TPU) PIC
4. Send e-mail notification to TPO Production Group Target (TPK) PIC

Filter Field:

1. WPP File:
 - a. Type: Input Field
 - b. Field Type: Upload File
2. Brand Family:
 - a. Type: Filter Field
 - b. Source: Table MstGenList with ListDetail is Brand Family
 - c. Field Type: Combobox
3. Brand Group
 - a. Type: Filter Field
 - b. Source: Table MstGenBrandGroup
 - c. Field Type: Text Field
4. Location:
 - a. Type: Filter Field, nested with filter Brand Group
 - b. Source: Table MstGenProcessSettings and MstGenProcessSettingsLocation
 - c. Field Type: Combobox
5. KPS Year:
 - a. Type: Filter Field
 - b. Source: Table MstGenWeek, by default show current year
 - c. Field Type: Combobox
6. KPS Week:
 - a. Type: Filter Field
 - b. Source: Table MstGenWeek, by default show next week
 - c. Field Type: Combobox

Action Button in Landing Page:

- a. View: Preview the filtered data from table PlanWeeklyProductionPlanning
- b. Browse: Choose file to upload

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- c. Upload:
 - Verify uploaded excel file if in invalid format
 - Save as draft data of any entry to table PlanTmpWeeklyProductionPlanning
 - Populate uploaded excel file result to UI
- d. Select: Open Brand Group pop up to choose
- e. Excel: Export data to determined format excel file
- f. Submit:
 - Save data to real table PlanWeeklyProductionPlanning
 - SSIS function will generate Target Production Unit (TPU)
 - SSIS function will generate TPO Production Group Target (TPK)
 - Send e-mail notification to Target Production Unit (TPU) PIC
 - Send e-mail notification to TPO Production Group Target (TPK) PIC

Action Button in Brand Group pop up:

- a. OK: Choose Brand Group as filter input
- b. Cancel:
 - Close Brand Group pop up and cancelling to choose Brand Group
 - Cancelling to choose Brand Group as filter input

Upload File Format:

The Weekly Production Planning (WPP) file to upload is determined with Excel *.xls or *.xlsx format with size less than 1 MB. User can ONLY upload 13 KPS Week.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Brand	Location	38	39	40	41	42	43	44	45	46	47	48	49	50
2	FA010786.13	ID21	20,952	20,952	18,336	20,952	14,676	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952
3	FA010786.13	ID22	18,336	20,952	14,676	20,952	20,952	20,952	18,336	20,952	20,952	20,952	20,952	20,952	20,952
4	FA010786.13	ID23	20,952	18,336	20,952	14,676	20,952	20,952	14,676	20,952	20,952	20,952	20,952	20,952	20,952
5	FA010786.13	ID24	23,568	15,72	27,228	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
6	FA010786.13	ID25	26,707	11,534	35,805	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
7	FA010786.13	ID26	29,846	7,348	44,383	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
8	FA010786.13	ID27	31,416	5,256	48,672	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
9	FA010786.13	ID30	32,985	5,256	52,96	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
10	FA010786.13	ID31	34,555	5,256	57,246	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
11	FA010786.13	ID34	36,124	5,256	61,584	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
12	FA010786.12	ID21	20,952	20,952	18,336	20,952	14,676	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952
13	FA010786.12	ID22	18,336	20,952	14,676	20,952	20,952	20,952	18,336	20,952	20,952	20,952	20,952	20,952	20,952
14	FA010786.12	ID23	20,952	18,336	20,952	14,676	20,952	20,952	14,676	20,952	20,952	20,952	20,952	20,952	20,952
15	FA010786.12	ID24	23,568	15,72	27,228	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
16	FA010786.12	ID25	26,707	11,534	35,805	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
17	FA010786.12	ID26	29,846	7,348	44,383	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
18	FA010786.12	ID27	31,416	5,256	48,672	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
19	FA010786.12	ID30	32,985	5,256	52,96	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
20	FA010786.12	ID31	34,555	5,256	57,246	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952
21	FA010786.12	ID34	36,124	5,256	61,584	20,952	20,952	20,952	11,016	20,952	20,952	20,952	20,952	20,952	20,952

Figure 3. 3 WPP Upload File Format

Export File Format:

The Weekly Production Planning (WPP) file of export result is determined with Excel *.xls format and contains Feature Name, Filter Fields, Filter Options, and Data Table.

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Exported file name: ProductionPlanning_WeeklyProductionPlanning_<current date>.xlsx

E-mail Notification Format:

Dear, <User Name>

<Feature Name>) is just generated. Please find the page with the following file or link attachments:

<Feature Name> <http://skt-dev.t1.voxteneo.com/id/FeatureName/LocationCode>

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

The information contained in this email is or may be confidential, legally privileged, and proprietary in nature or otherwise protected by law from disclosure and is intended solely for the use of the addressee. If you are not the intended recipient, you are hereby notified that any disclosure, dissemination, distribution, copying or use of any part of this mail is strictly prohibited and unlawful. If you received this email in error, please immediately notify the sender or our email administrator at postmaster@sampoerna.com and delete it from your system. Thank you.

Figure 3. 4 E-mail Notification Format

Responsibility: SCM Planning

Duration:

Submission from SCM Planning should be done on weekly basis, planning for the next week should be submitted on Friday this week at the latest. The data of current week can be changes by SCM planning according to market situation (e.g. decreasing/increasing demand from the market, SKT capacity decrease)

Table: PlanTmpWeeklyProductionPlanning

Field Name	PK	FK	Unique	Mandatory	Auto	Reference Table
BrandCode	Yes	Yes	No	Yes	No	MstGenBrand
LocationCode	Yes	Yes	No	Yes	No	MstGenLocation
KPSYear	Yes	No	No	Yes	No	-
KPSWeek	Yes	No	No	Yes	Yes	-
Value1	No	No	No	No	No	-
Value2	No	No	No	No	No	-
Value3	No	No	No	No	No	-
Value4	No	No	No	No	No	-
Value5	No	No	No	No	No	-
Value6	No	No	No	No	No	-



Value7	No	No	No	No	No	-
Value8	No	No	No	No	No	-
Value9	No	No	No	No	No	-
Value10	No	No	No	No	No	-
Value11	No	No	No	No	No	-
Value12	No	No	No	No	No	-
IsValid	No	No	No	No	No	-
CreatedBy	No	No	No	Yes	Yes	-
CreatedDate	No	No	No	Yes	Yes	-
UpdatedBy	No	No	No	Yes	Yes	-
UpdatedDate	No	No	No	Yes	Yes	-

Fields:

1. KPSYear:

- a. This field will entry with KPS Week information
- b. This field list is populated from table MstGenWeek
- c. Default value is year of current year
- d. Field Type: Mandatory and Uneditable
- e. Data Type: INTEGER
- f. Char length: -

2. KPSWeek:

- a. This field will entry with KPS Week information
- b. This field list is populated from table MstGenWeek
- c. Default value is week from uploaded excel file
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: INTEGER
- f. Char length: -

3. BrandCode:

- a. This field will entry with Brand Code
- b. This field list is populated from table MstGenBrand
- c. Field Type: Mandatory and Uneditable
- d. Data Type: VARCHAR
- e. Char length: 11

4. BrandGroupCode:

- a. This field will entry with Brand Group Code
- b. This field list is populated from table MstGenBrandGroup
- c. Field Type: Mandatory and Uneditable



d. Data Type: VARCHAR

e. Char length: 20

5. LocationCode:

a. This field will entry with Brand Group Code

b. This field list is nested from chosen Brand Group Filter in UI

c. Field Type: Mandatory and Uneditable

d. Data Type: VARCHAR

e. Char length: 8

6. WPPCode:

a. This is combine key from KPS Year and KPS Week

b. Field Type: Mandatory and Uneditable

c. Data Type: VARCHAR

d. Char length: 256

7. Value1:

a. Name in UI: *Show value under 1st week column in UI*

b. Function in UI: *Read-only text*

c. This field is Production Value of week 1st, by default referenced with the first column name in uploaded excel file and the next week will be incremented

d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)

e. Data Type: FLOAT

f. Char length: 10

8. Value2:

a. Name in UI: *Show value under 2nd week column in UI*

b. Function in UI: *Read-only text*

c. This field is Production Value of week 2nd

d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)

e. Data Type: FLOAT

f. Char length: 10

9. Value3:

a. Name in UI: *Show value under 3rd week column in UI*

b. Function in UI: *Read-only text*

c. This field is Production Value of week 3rd

d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)

e. Data Type: FLOAT



f. Char length: 10

10. Value4:

- a. Name in UI: *Show value under 4th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 4th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

11. Value5:

- a. Name in UI: *Show value under 5th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 5th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

12. Value6:

- a. Name in UI: *Show value under 6th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 6th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

13. Value7:

- a. Name in UI: *Show value under 7th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 7th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

14. Value8:

- a. Name in UI: *Show value under 8th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 8th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)



- e. Data Type: FLOAT
- f. Char length: 10

15. Value9:

- a. Name in UI: *Show value under 9th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 9th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

16. Value10:

- a. Name in UI: *Show value under 10th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 10th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

17. Value11:

- a. Name in UI: *Show value under 11th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 11th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

18. Value12:

- a. Name in UI: *Show value under 12th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 12th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

19. Value13:

- a. Name in UI: *Show value under 13th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 13th



d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)

e. Data Type: FLOAT

f. Char length: 10

20. IsValid:

a. This is flag field to mark temporary data if ready to submit to real table

b. Updated to True if uploaded excel file is ready to execute to real table

c. Field Type: Mandatory and Editable by System (from execute Submit button)

d. Data Type: BIT, default is False

e. Char length: Only True or False

21. CreatedDate:

a. This field will be generated if the row is inserted

b. Automatically generated by system, use Server Date and Time as reference

c. Field Type: Mandatory and Uneditable

d. Data Type: DATETIME

e. Char length: -

22. CreatedBy:

a. This field will be generated automatically by the system with entries employee ID of windows logon information (User Responsibility)

b. Automatically updated

c. Field Type: Mandatory and Uneditable

d. Data Type: VARCHAR

e. Char length: 64 character

23. UpdatedDate:

a. This field will be updated if the row is inserted, changed and saved

b. Automatically updated by system, use Server Date and Time as reference

c. Field Type: Mandatory and Editable by System

d. Data Type: DATETIME

e. Char length: -

24. UpdatedBy:

a. This field will be updated automatically by the system with entries employee ID of windows logon information (User Responsibility)

b. Automatically updated

c. Field Type: Mandatory and Editable by System

d. Data Type: DATETIME

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e. Char length: -

Table: PlanWeeklyProductionPlanning

Field Name	PK	FK	Unique	Mandatory	Auto	Reference Table
BrandCode	Yes	Yes	No	Yes	No	MstGenBrand
LocationCode	Yes	Yes	No	Yes	No	MstGenLocation
KPSYear	Yes	No	No	Yes	No	-
KPSWeek	Yes	No	No	Yes	Yes	-
Value1	No	No	No	No	No	-
Value2	No	No	No	No	No	-
Value3	No	No	No	No	No	-
Value4	No	No	No	No	No	-
Value5	No	No	No	No	No	-
Value6	No	No	No	No	No	-
Value7	No	No	No	No	No	-
Value8	No	No	No	No	No	-
Value9	No	No	No	No	No	-
Value10	No	No	No	No	No	-
Value11	No	No	No	No	No	-
Value12	No	No	No	No	No	-
CreatedBy	No	No	No	Yes	Yes	-
CreatedDate	No	No	No	Yes	Yes	-
UpdatedBy	No	No	No	Yes	Yes	-
UpdatedDate	No	No	No	Yes	Yes	-

Fields:

1. KPSYear:
 - a. Name in UI: KPS Year
 - b. Function in UI: Filter field
 - c. This field will entry with KPS Week information
 - d. This field list is populated from table MstGenWeek
 - e. Default value is year of current year
 - f. Field Type: Mandatory and Uneditable
 - g. Data Type: INTEGER
 - h. Char length: -
2. KPSWeek:
 - a. Name in UI: KPS Week
 - b. Function in UI: Filter field
 - c. This field will entry with KPS Week information
 - d. This field list is populated from table MstGenWeek



- e. Default value is week from uploaded excel file
- f. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- g. Data Type: INTEGER
- h. Char length: -

3. BrandCode:

- a. This field will entry with Brand Code
- b. Field Type: Mandatory and Uneditable
- c. Data Type: VARCHAR
- d. Char length: 11

4. BrandGroupCode:

- a. This field will entry with Brand Group Code
- b. Field Type: Mandatory and Uneditable
- c. Data Type: VARCHAR
- d. Char length: 20

5. LocationCode:

- a. This field will entry with Brand Group Code
- b. Field Type: Mandatory and Uneditable
- c. Data Type: VARCHAR
- d. Char length: 8

6. WPPCode:

- a. This is combine key from KPS Year and KPS Week
- b. Field Type: Mandatory and Uneditable
- c. Data Type: VARCHAR
- d. Char length: 256

7. Value1:

- a. Name in UI: *Show value under 1st week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 1st, by default referenced with the first column name in uploaded excel file and the next week will be incremented
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

8. Value2:

- a. Name in UI: *Show value under 2nd week column in UI*



- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 2nd
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

9. Value3:

- a. Name in UI: *Show value under 3rd week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 3rd
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

10. Value4:

- a. Name in UI: *Show value under 4th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 4th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

11. Value5:

- a. Name in UI: *Show value under 5th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 5th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

12. Value6:

- a. Name in UI: *Show value under 6th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 6th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

13. Value7:



- a. Name in UI: *Show value under 7th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 7th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

14. Value8:

- a. Name in UI: *Show value under 8th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 8th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

15. Value9:

- a. Name in UI: *Show value under 9th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 9th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

16. Value10:

- a. Name in UI: *Show value under 10th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 10th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

17. Value11:

- a. Name in UI: *Show value under 11th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 11th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10



18. Value12:

- a. Name in UI: *Show value under 12th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 12th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

19. Value13:

- a. Name in UI: *Show value under 13th week column in UI*
- b. Function in UI: *Read-only text*
- c. This field is Production Value of week 13th
- d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
- e. Data Type: FLOAT
- f. Char length: 10

20. CreatedDate:

- a. This field will be generated if the row is inserted
- b. Automatically generated by system, use Server Date and Time as reference
- c. Field Type: Mandatory and Uneditable
- d. Data Type: DATETIME
- e. Char length: -

21. CreatedBy:

- a. This field will be generated automatically by the system with entries employee ID of windows logon information (User Responsibility)
- b. Automatically updated
- c. Field Type: Mandatory and Uneditable
- d. Data Type: VARCHAR
- e. Char length: 64 character

22. UpdatedDate:

- a. This field will be updated if the row is inserted, changed and saved
- b. Automatically updated by system, use Server Date and Time as reference
- c. Field Type: Mandatory and Editable by System
- d. Data Type: DATETIME
- e. Char length: -

23. UpdatedBy:



- a. This field will be updated automatically by the system with entries employee ID of windows logon information (User Responsibility)
- b. Automatically updated
- c. Field Type: Mandatory and Editable by System
- d. Data Type: DATETIME
- e. Char length: -

Development Notes:

User Flow:

1. **Database:** One row in database has value1-value13 (discussed in August).
2. **UI:** There are two radio buttons in TPU page: ALL and CURRENTDAYFORWARD, secara default CURRENTDAYFORWARD. Radio button diletakkan dibawah KPS WEEK.

Normal Flow:

User upload WPP file for the next week, with KPS Year is running year, then value from upload file will be inserted to value1-value13. First KPS Week in header, will be the first week (reference) for the next week (value2-value13).

Example, current KPS Week is week 1

User upload file with first header: week 2 (next week dari current week)

Maka di database akan terbuat satu row untuk WPP, dengan LocationCode dan BrandCode yang ada dalam file dengan KPSWeek = 2, dan nilai value1-value13 sesuai dengan yang ada pada file excel.

Setelah WPP disubmit, maka SSIS akan generate TPU (untuk Plant) dan TPK (untuk TPO).

Special Flow:

User melakukan upload dimana data untuk current week sudah ada dalam database.

Example, current KPS Week is week 2, day Kamis

User upload file with first header: week 2

Dalam kondisi ini data di database sudah ada (berdasarkan contoh 1) maka akan muncul pop up, dimana User akan diminta memilih efek dari upload WPP seperti pada special flow (ALL atau CURRENTDAYFORWARD).

Setelah memilih, maka data yang baru akan diinsertkan ke database menggantikan data yang lama. Sesuai dengan cara insert (sesuai dengan contoh normal flow). Setelah itu akan melakukan generate TPU sesuai dengan pilihan yang sudah dipilih User (ALL atau CURRENTDAYFORWARD)

Illustration:

Current KPS Week: week 1

User upload untuk keperluan week 2



Brand	Location	2	3	4	5	6	7	8	9	10	11	12	13	14
FA010783.14	ID21	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952

Maka di database akan tercreate satu row database untuk KPS Week: 2 (sesuai dengan header pertama file excel) dan memasukan value1-value13 kedalam masing-masing field. Setelah itu generate TPU (plant) dan TRK (TPO)

Current KPS Week: week 2

User upload untuk keperluan week 2

Brand	Location	2	3	4	5	6	7	8	9	10	11	12	13	14
FA010783.14	ID21	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952	20,952

Maka akan muncul pop up bahwa sudah ada wpp yang di upload dan akan melakukan perubahan dengan pilihan (ALL atau CURRENTDAYFORWARD). Jika sudah, memilih data di row yang KPS Week: 2, akan diubah dengan nilai yang baru dan generate (plant) dan TPK (TPO) sesuai yang dipilih (ALL atau CURRENTDAYFORWARD). Generate TPU ini mengakibatkan nilai rekomendasi untuk TPU berubah jika terdapat selisih produksi yang harus dilakukan.

SSIS Flow:

Normal Case:

Setelah submit WPP, maka akan generate TPU dan TPK dimana untuk rekomendasinya akan disesuaikan dengan data history keduanya. Untuk TPU (Plant) disesuaikan dengan capacity produksi setiap unit selama 3 minggu sebelumnya (berdasarkan absensi juga). Untuk TPK akan ambil dari kapasitas produksi per group.

Spesial Case:

Jika data sebelumnya sudah ada di Database, maka ketika submit akan generate TPU atau TPK dimana untuk field TargetManual tidak diubah. Jika membuka TPU yang diubah datanya (setelah revisi WPP) maka rekomendasi system akan berubah (TargetManual sesuai dengan data yang lama). UI di TPU ada perubahan (penambahan checkbox, Override TargetManual). Jika TPU sudah diubah, maka User dapat melihat TPU sesuai WPP revisi dengan TargetManual sesuai dengan data yang lama.

- Jika checkbox OverrideManual dicheck, maka ketika tombol calculate diklik maka TargetManual = TargetSystem
- Jika checkbox OverrideManual uncheck, maka ketika tombol calculate diklik maka TargetManual tidak berubah.

3.1.2 Plant Target Production Unit (TPU)

Description:

The production planning which calculate the production capacity of each production unit based on production volume of selected location and week. The result is number of rolling worker, daily working hours, and weighted average 3 weeks historical data of productivity and the percentage of daily attendance.

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Target Production Unit (TPU) could be applied to more than 1 Brand Code in the same week and switching Brand Code which will running parallel in a production unit. In this case, the planner should sharing allocate working hours and number of rolling worker for each Brand Code.

The production planning which approved by operation management. The production planning should be aligned with Plant Production Group Target (TPK).

User Interface (UI): Excel-like in Internet Explorer v.11

Figure 3. 5 Plant Target Production Unit (TPU)

Other User Interface affected: Unit Working Hours pop up

Unit Working Hours User Interface (UI): Popup

Unit Work Hours									
Unit	Brand	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
1001	FA010783.14	7	7	7	7	7	7	7	
1002	FA010783.14	7	7	7	7	7	7	7	
1003	FA010783.14	7	7	7	7	7	7	7	
1004	FA010783.14	7	7	7	7	7	7	7	
1005	FA010783.14	7	7	7	7	7	7	7	
1006	FA010783.14	7	7	7	7	7	7	7	
1007	FA010783.14	7	7	7	7	7	7	7	
ABC	FA010783.14	7	7	7	7	7	7	7	
CDA	FA010783.14	7	7	7	7	7	7	7	
VGA	FA010783.14	7	7	7	7	7	7	7	

Figure 3. 6 Unit Working Hours Popup



Output:

1. Calculated daily production target of each production group in Plant Production Group Target (TPK)
2. Send e-mail notification to Plant Production Group Target (TPK) PIC

Filter Field:

1. Location:
 - a. Type: Filter Field, nested with filter Brand Group
 - b. Source: Table MstGenProcessSettings and MstGenProcessSettingsLocation
 - c. Field Type: Combobox
2. Brand:
 - a. Type: Filter Field
 - b. Source: Table MstGenBrand
 - c. Field Type: Combobox
3. Brand:
 - a. Type: Filter Field
 - b. Source: Table MstGenLocation
 - c. Field Type: Combobox
4. KPS Year:
 - a. Type: Filter Field
 - b. Source: Table MstGenWeek, by default show current year
 - c. Field Type: Combobox
5. KPS Week:
 - a. Type: Filter Field
 - b. Source: Table MstGenWeek, by default show next week
 - c. Field Type: Combobox

Action Button in Landing Page:

- a. View: Preview the filtered data from table PlanTargetProductionUnit
- b. Unit Work Hours: Button to open Unit Work Hours pop up
- c. Save: Save data to table PlanTargetProductionUnit
- d. Excel: Export data to determined format excel file
- e. Submit:
 - Update data to table PlanTargetProductionUnit



- Entry data to PlanPlantTargetProductionKelompok
- SSIS function will generate Plant Production Group Target (TPK)
- Send e-mail notification to Plant Production Group Target (TPK) PIC

Action Button in Unit Work Hours pop up:

- a. Save:
 - Button to entry working hours when there are differences between each unit
 - Save data ProcessWorkHours1-7 to table PlanTargetProductionUnit
- b. Cancel: Close pop up and cancelling to edit data

Export File Format:

The Target Production Unit (TPU) file of export result is determined with Excel format (*.x/sx) and contains Feature Name, Filter Fields, Filter Options, and Data Table.

Exported file name: ProductionPlanning_TargetProductionUnit_<current date>.xlsx

E-mail Notification Format:

Dear, <User Name>

<Feature Name>) is just generated. Please find the page with the following file or link attachments:

<Feature Name> <http://skt-dev.t1.voxteneo.com/id/FeatureName/LocationCode>

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

The information contained in this email is or may be confidential, legally privileged, and proprietary in nature or otherwise protected by law from disclosure and is intended solely for the use of the addressee. If you are not the intended recipient, you are hereby notified that any disclosure, dissemination, distribution, copying or use of any part of this mail is strictly prohibited and unlawful. If you received this email in error, please immediately notify the sender or our email administrator at postmaster@sampoerna.com and delete it from your system. Thank you.

Figure 3. 7 E-mail Notification Format

Responsibility: SKT Plant Production Supervisor (PPS)

Duration:

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Submission from Plant Production Supervisor (PPS) should be done on weekly basis every Friday at the latest on previous week, and could change if any on current week, planning for the next week should be submitted on Friday this week at the latest.

Table: PlanTargetProductionUnit

Field Name	PK	FK	Unique	Mandatory	Auto	Reference Table
ProductionStartDate	Yes	No	No	Yes	Yes	-
LocationCode	Yes	Yes	No	Yes	Yes	MstPlantUnit
UnitCode	Yes	Yes	No	Yes	Yes	MstPlantUnit
KPSYear	Yes	Yes	No	Yes	Yes	PlanWeeklyProductionPlanning
KPSWeek	Yes	Yes	No	Yes	Yes	PlanWeeklyProductionPlanning
BrandCode	Yes	Yes	No	Yes	Yes	PlanWeeklyProductionPlanning
TPUCode	No	No	No	No	No	-
WorkerRegister	No	No	No	No	No	-
WorkerAvailable	No	No	No	No	No	-
WorkerAlocation	No	No	No	No	No	-
PercentAttendance1	No	No	No	No	No	-
PercentAttendance2	No	No	No	No	No	-
PercentAttendance3	No	No	No	No	No	-
PercentAttendance4	No	No	No	No	No	-
PercentAttendance5	No	No	No	No	No	-
PercentAttendance6	No	No	No	No	No	-
PercentAttendance7	No	No	No	No	No	-
HistoricalCapacityWorker1	No	No	No	No	No	-
HistoricalCapacityWorker2	No	No	No	No	No	-
HistoricalCapacityWorker3	No	No	No	No	No	-
HistoricalCapacityWorker4	No	No	No	No	No	-
HistoricalCapacityWorker5	No	No	No	No	No	-
HistoricalCapacityWorker6	No	No	No	No	No	-
HistoricalCapacityWorker7	No	No	No	No	No	-
HistoricalCapacityGroup1	No	No	No	No	No	-
HistoricalCapacityGroup2	No	No	No	No	No	-
HistoricalCapacityGroup3	No	No	No	No	No	-
HistoricalCapacityGroup4	No	No	No	No	No	-
HistoricalCapacityGroup5	No	No	No	No	No	-
HistoricalCapacityGroup6	No	No	No	No	No	-
HistoricalCapacityGroup7	No	No	No	No	No	-
TargetSystem1	No	No	No	No	No	-
TargetSystem2	No	No	No	No	No	-
TargetSystem3	No	No	No	No	No	-
TargetSystem4	No	No	No	No	No	-
TargetSystem5	No	No	No	No	No	-
TargetSystem6	No	No	No	No	No	-
TargetSystem7	No	No	No	No	No	-
TargetManual1	No	No	No	No	No	-
TargetManual2	No	No	No	No	No	-

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TargetManual3	No	No	No	No	No	-
TargetManual4	No	No	No	No	No	-
TargetManual5	No	No	No	No	No	-
TargetManual6	No	No	No	No	No	-
TargetManual7	No	No	No	No	No	-
ProcessWorkHours1	No	No	No	No	No	-
ProcessWorkHours2	No	No	No	No	No	-
ProcessWorkHours3	No	No	No	No	No	-
ProcessWorkHours4	No	No	No	No	No	-
ProcessWorkHours5	No	No	No	No	No	-
ProcessWorkHours6	No	No	No	No	No	-
ProcessWorkHours7	No	No	No	No	No	-
TotalWorkhours	No	No	No	No	No	-
TotalTargetSystem	No	No	No	No	No	-
TotalTargetManual	No	No	No	No	No	-
CreatedDate	No	No	No	Yes	Yes	-
CreatedBy	No	No	No	Yes	Yes	-
UpdatedDate	No	No	No	Yes	Yes	-
UpdatedBy	No	No	No	Yes	Yes	-

Fields:

1. ProductionStartDate
 - a. This field will entry production start date, depend on the start date of KPS Week
 - b. Field Type: Mandatory and Uneditable
 - c. Data Type: DATE
 - d. Char length: -
2. KPSYear:
 - a. This field will entry with KPS Week information
 - b. This field list is populated from table MstGenWeek
 - c. Default value is year of current year
 - d. Field Type: Mandatory and Uneditable
 - e. Data Type: INTEGER
 - f. Char length: -
3. KPSWeek:
 - a. This field will entry with KPS Week information
 - b. This field list is populated from table MstGenWeek
 - c. Default value is week from uploaded excel file
 - d. Field Type: Mandatory and Editable by System (from latest uploaded excel file)
 - e. Data Type: INTEGER



f. Char length: -

4. BrandCode:

- a. This field will entry with Brand Code
- b. This field list is populated from table MstGenBrand
- c. Field Type: Mandatory and Uneditable
- d. Data Type: VARCHAR
- e. Char length: 11

5. BrandGroupCode:

- a. This field will entry with Brand Group Code
- b. This field list is populated from table MstGenBrandGroup
- c. Field Type: Mandatory and Uneditable
- d. Data Type: VARCHAR
- e. Char length: 20

6. LocationCode:

- a. This field will entry with Brand Group Code
- b. This field list is nested from chosen Brand Group Filter in UI
- c. Field Type: Mandatory and Uneditable
- d. Data Type: VARCHAR
- e. Char length: 8

7. Shift:

- a. Name in UI: Shift
- b. Function in UI: Filter Input
- c. This field will entry with Production Shift The value is taken from selected Location
- d. This field can be setup in Master General Location and Group Shift
- e. This production shift will applied to new plant
- f. Field Type: Mandatory and Uneditable
- g. Data Type: INTEGER
- h. Char length: -

8. UnitCode:

- a. This field list is auto-generated from MstPlantUnit, nested with selected Location
- b. Field Type: Mandatory and Uneditable
- c. Data Type: VARCHAR
- d. Char length: 4

9. TPUCode:



- a. This is combine key from KPS Year and KPS Week
- b. Field Type: Mandatory and Uneditable
- c. Data Type: VARCHAR
- d. Char length: 256

10. WorkerRegister

- a. Name in UI: Register under Rolling Worker column
- b. Function in UI: Read-only text
- c. This Register Number of Rolling Worker field will be updated automatically by the system with number of rolling worker of each production unit in selected week, unit, shift and location. The value is weighted average 3 weeks historical data
- d. WorkerRegister: Total of WorkerCount from table MstPlantProductionGroup with ProcessGroup is ROLLING)
- e. Field Type: Mandatory and Editable by System if any updates in MstPlantProductionGroup
- f. Data Type: INTEGER
- g. Char length: -

11. WorkerAvailable

- a. Name in UI: Available under Rolling Worker column
- b. Function in UI: Read-only text
- c. This field is to show value of available worker to allocate in Unit for next week. The value is taken from SSIS calculation. Default value as same as available number of rolling worker minus planned long leave
- d. Calculation: WorkerRegister – Absent Worker
- e. Absent Worker: from WorkerAbsenteeism with StartAbsent <= StartDay of Week and EndAbsent >= EndDay of Week and MstPlantEmpJobDataAcv from selected Unit with ProcessSettingsCode is ROLLING.
- f. Field Type: Mandatory and Editable by System if any updates in MstPlantEmpJobDataAcv
- g. Data Type: INTEGER
- h. Char length: -

12. WorkerAllocation

- a. Name in UI: Allocation under Rolling Worker column
- b. Function in UI: Input Field with already populated default value
- c. This Allocated Number of Rolling Worker data will entry with allocated number of rolling worker of each production unit in selected location, shift and week
- d. WorkerAllocation, the value by default is same with WorkerAvailable
- e. Field Type: Mandatory and Editable by System (from latest user input)



f. Data Type: INTEGER

g. Char length: -

13. PercentAttendance1

a. Name in UI: % Attendance under Senin column in UI

b. Function in UI: Read-only text

c. This field is to entry value attendance percentage under Senin column in UI. Calculated from average 3 weeks historical data of daily attendance percentage in the same day: Senin

d. PercentAttendance1: Historical data is taken from ProductionCard, calculate every rolling employee that attend from selected Group, Unit, Shift, and Location

e. Calculation: Get the absent employee in Senin with “Actual Production” != 0 atau Upah Lain != 0. (WorkerRegister – Absent)/ WorkerRegister X 100%)

f. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)

g. Data Type: INTEGER

h. Char length: -

14. PercentAttendance2

a. Name in UI: % Attendance under Selasa column in UI

b. Function in UI: Read-only text

c. This field is to entry value attendance percentage under Selasa column in UI. Calculated from average 3 weeks historical data of daily attendance percentage in the same day: Selasa

d. Historical data is taken from ProductionCard, calculate every rolling employee that attend from selected Group, Unit, Shift, and Location

e. Calculation: Get the absent employee in Selasa with “Actual Production” != 0 atau Upah Lain != 0. (WorkerRegister – Absent)/ WorkerRegister X 100%)

f. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)

g. Data Type: INTEGER

h. Char length: -

15. PercentAttendance3

a. Name in UI: % Attendance under Rabu column in UI

b. Function in UI: Read-only text

c. This field is to entry value attendance percentage under Rabu column in UI. Calculated from average 3 weeks historical data of daily attendance percentage in the same day: Rabu

d. Calculation: Get the absent Employee in Rabu with “Actual Production” != 0 atau Upah Lain != 0. (WorkerRegister – Absent)/ WorkerRegister X 100%)

e. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)

f. Data Type: INTEGER



g. Char length: -

16. PercentAttendance4

- a. Name in UI: % Attendance *under Kamis column in UI*
- b. Function in UI: *Read-only text*
- c. This field is to entry value attendance percentage under Kamis column in UI. Calculated from average 3 weeks historical data of percentage of daily attendance of each production unit in selected location, shift and week in the same day: Kamis
- d. The value is weighted average 3 weeks historical data
- e. Calculation: Get the absent Employee in Kamis with “Actual Production” != 0 atau Upah Lain != 0. $(\text{WorkerRegister} - \text{Absent}) / \text{WorkerRegister} \times 100\%$)
- f. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)
- g. Data Type: INTEGER
- h. Char length: -

17. PercentAttendance5

- a. Name in UI: % Attendance *under Jumat column in UI*
- b. Function in UI: *Read-only text*
- c. This field is to entry value attendance percentage under Jumat column in UI. Calculated from average 3 weeks historical data of percentage of daily attendance of each production unit in selected location, shift and week in the same day: Jumat
- d. Calculation: Get the absent Employee in Jumat with “Actual Production” != 0 atau Upah Lain != 0. $(\text{WorkerRegister} - \text{Absent}) / \text{WorkerRegister} \times 100\%$)
- e. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)
- f. Data Type: INTEGER
- g. Char length: -

18. PercentAttendance6

- a. Name in UI: % Attendance *under Sabtu column in UI*
- b. Function in UI: *Read-only text*
- c. This field is to entry value attendance percentage under Sabtu column in UI. Calculated from average 3 weeks historical data of percentage of daily attendance of each production unit in selected location, shift and week in the same day: Sabtu
- d. Calculation: Get the absent Employee in Sabtu with “Actual Production” != 0 atau Upah Lain != 0. $(\text{WorkerRegister} - \text{Absent}) / \text{WorkerRegister} \times 100\%$)
- e. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)
- f. Data Type: INTEGER
- g. Char length: -



19. PercentAttendance7

- a. Name in UI: % Attendance under Minggu column in UI
- b. Function in UI: Read-only text
- c. This field is to entry value attendance percentage under Minggu column in UI. Calculated from average 3 weeks historical data of percentage of daily attendance of each production unit in selected location, shift and week in the same day: Minggu
- d. Calculation: Get the absent Employee in Minggu with “Actual Production” != 0 atau Upah Lain != 0. (WorkerRegister – Absent)/ WorkerRegister X 100%
- e. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)
- f. Data Type: INTEGER
- g. Char length: -

20. HistoricalCapacityWorker1

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of one worker from unit in a week.
- b. HistoricalCapacityWorker: Data is taken from average 3 weeks historical ProductionCard data, calculate every employee with ProcessGroup is ROLLING in certain Unit
- c. Calculation: $(\sum \text{Actual Production in Senin} + \sum \text{Upah Lain in Senin}) / \sum \text{Work Hours in a week}$
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

21. HistoricalCapacityWorker2

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of one worker from unit in a week.
- b. HistoricalCapacityWorker: Data is taken from average 3 weeks historical ProductionCard data, calculate every employee with ProcessGroup is ROLLING in certain Unit
- c. Calculation: $(\sum \text{Actual Production in Selasa} + \sum \text{Upah Lain in Selasa}) / \sum \text{Work Hours in a week}$
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

22. HistoricalCapacityWorker3

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of one worker from unit in a week.
- b. HistoricalCapacityWorker: Data is taken from average 3 weeks historical ProductionCard data, calculate every employee with ProcessGroup is ROLLING in certain Unit
- c. Calculation: $(\sum \text{Actual Production in Rabu} + \sum \text{Upah Lain in Rabu}) / \sum \text{Work Hours in a week}$



- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

23. HistoricalCapacityWorker4

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of one worker from unit in a week.
- b. HistoricalCapacityWorker: Data is taken from average 3 weeks historical ProductionCard data, calculate every employee with ProcessGroup is ROLLING in certain Unit
- c. Calculation: $(\sum \text{Actual Production in Kamis} + \sum \text{Upah Lain in Kamis}) / \sum \text{Work Hours in a week}$
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

24. HistoricalCapacityWorker5

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of one worker from unit in a week.
- b. HistoricalCapacityWorker: Data is taken from average 3 weeks historical ProductionCard data, calculate every employee with ProcessGroup is ROLLING in certain Unit
- c. Calculation: $(\sum \text{Actual Production in Jumat} + \sum \text{Upah Lain in Jumat}) / \sum \text{Work Hours in a week}$
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

25. HistoricalCapacityWorker6

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of one worker from unit in a week.
- b. HistoricalCapacityWorker: Data is taken from average 3 weeks historical ProductionCard data, calculate every employee with ProcessGroup is ROLLING in certain Unit
- c. Calculation: $(\sum \text{Actual Production in Sabtu} + \sum \text{Upah Lain in Sabtu}) / \sum \text{Work Hours in a week}$
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

26. HistoricalCapacityWorker7

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of one worker from unit in a week.
- b. HistoricalCapacityWorker: Data is taken from average 3 weeks historical ProductionCard data, calculate every employee with ProcessGroup is ROLLING in certain Unit



- c. Calculation: $(\sum \text{Actual Production in Minggu} + \sum \text{Upah Lain in Minggu}) / \sum \text{Work Hours in a week}$
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

27. HistoricalCapacityGroup1

- a. This Group Productivity field will be updated automatically by the system with daily worker productivity of one unit in a week.
- b. Calculation: $(\text{WorkerAlocation} \times \text{HistoricalCapacityWorker1 from selected Unit})$
- c. Field Type: Mandatory
- d. Data Type: INTEGER
- e. Char length: -

28. HistoricalCapacityGroup2

- a. This Group Productivity field will be updated automatically by the system with daily worker productivity of one unit in a week.
- b. Calculation: $(\text{WorkerAlocation} \times \text{HistoricalCapacityWorker2 from selected Unit})$
- c. Field Type: Mandatory
- d. Data Type: INTEGER
- e. Char length: -

29. HistoricalCapacityGroup3

- a. This Group Productivity field will be updated automatically by the system with daily worker productivity of one unit in a week.
- b. Calculation: $(\text{WorkerAlocation} \times \text{HistoricalCapacityWorker3 from selected Unit})$
- c. Field Type: Mandatory
- d. Data Type: INTEGER
- e. Char length: -

30. HistoricalCapacityGroup4

- a. This Group Productivity field will be updated automatically by the system with daily worker productivity of one unit in a week.
- b. Calculation: $(\text{WorkerAlocation} \times \text{HistoricalCapacityWorker4 from selected Unit})$
- c. Field Type: Mandatory
- d. Data Type: INTEGER
- e. Char length: -

31. HistoricalCapacityGroup5

- a. This Group Productivity field will be updated automatically by the system with daily worker productivity of one unit in a week.



- b. Calculation: (WorkerAllocation X HistoricalCapacityWorker5 from selected Unit)
- c. Field Type: Mandatory
- d. Data Type: INTEGER
- e. Char length: -

32. HistoricalCapacityGroup6

- a. This Group Productivity field will be updated automatically by the system with daily worker productivity of one unit in a week.
- b. Calculation: (WorkerAllocation X HistoricalCapacityWorker6 from selected Unit)
- c. Field Type: Mandatory
- d. Data Type: INTEGER
- e. Char length: -

33. HistoricalCapacityGroup7

- a. This Group Productivity field will be updated automatically by the system with daily worker productivity of one unit in a week.
- b. Calculation: (WorkerAllocation X HistoricalCapacityWorker7 from selected Unit)
- c. Field Type: Mandatory
- d. Data Type: INTEGER
- e. Char length: -

34. TargetSystem1

- a. This Production Value is the system recommendation of production volume of selected unit in Senin
- b. Calculation BOBOT1: HistoricalCapacityGroup1 X PercentAttendance1 X ProcessWorkHours1
- c. Calculation TargetSystem1: BOBOT1 / \sum BOBOT(1-7) X Target Value from WPP in selected week.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours1 or WIP1
- e. Data Type: INTEGER
- f. Char length: -

35. TargetSystem2

- a. This Production Value is the system recommendation of production volume of selected unit in Selasa
- b. Calculation BOBOT2: HistoricalCapacityGroup2 X PercentAttendance2 X ProcessWorkHours2
- c. Calculation TargetSystem2: BOBOT2 / \sum BOBOT(1-7) * Target Value from WPP in selected week.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours2 or WIP2
- e. Data Type: INTEGER
- f. Char length: -

36. TargetSystem3



- a. This Production Value is the system recommendation of production volume of selected unit in Rabu
- b. Calculation BOBOT3: HistoricalCapacityGroup3 X PercentAttendance3 X ProcessWorkHours3
- c. Calculation TargetSystem3: $\text{BOBOT3} / \sum \text{BOBOT}(1-7) * \text{Target Value from WPP}$ in selected week.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours3 or WIP3
- e. Data Type: INTEGER
- f. Char length: -

37. TargetSystem4

- a. This Production Value is the system recommendation of production volume of selected unit in Kamis
- b. Calculation BOBOT4: HistoricalCapacityGroup4 X PercentAttendance4 X ProcessWorkHours4
- c. Calculation TargetSystem4: $\text{BOBOT4} / \sum \text{BOBOT}(1-7) * \text{Target Value from WPP}$ in selected week.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours4 or WIP4
- e. Data Type: INTEGER
- f. Char length: -

38. TargetSystem5

- a. This Production Value is the system recommendation of production volume of selected unit in Jumat
- b. Calculation BOBOT5: HistoricalCapacityGroup5 X PercentAttendance5 X ProcessWorkHours5
- c. Calculation TargetSystem5: $\text{BOBOT5} / \sum \text{BOBOT}(1-7) * \text{Target Value from WPP}$ in selected week.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours5 or WIP5
- e. Data Type: INTEGER
- f. Char length: -

39. TargetSystem6

- a. This Production Value is the system recommendation of production volume of selected unit in Selasa
- b. Calculation BOBOT6: HistoricalCapacityGroup6 X PercentAttendance6 X ProcessWorkHours6
- c. Calculation TargetSystem6: $\text{BOBOT6} / \sum \text{BOBOT}(1-7) * \text{Target Value from WPP}$ in selected week.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours6 or WIP6
- e. Data Type: INTEGER
- f. Char length: -

40. TargetSystem7

- a. This Production Value is the system recommendation of production volume of selected unit in Selasa
- b. Calculation BOBOT7: HistoricalCapacityGroup7 X PercentAttendance7 X ProcessWorkHours7



- c. Calculation TargetSystem7: $\text{BOBOT7} / \sum \text{BOBOT}(1-7) * \text{Target Value from WPP}$ in selected week.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours7 or WIP7
- e. Data Type: INTEGER
- f. Char length: -

41. TargetManual1:

- a. This field will entry with daily weighted value of production in selected unit to adjust the calculation of all variable. Value by default is same with TargetSystem1
- b. Field Type: Mandatory and editable
- c. Data Type: INTEGER
- d. Char length: -

42. TargetManual2

- a. This field will entry with daily weighted value of production in selected unit to adjust the calculation of all variable. Value by default is same with TargetSystem2
- b. Field Type: Mandatory and editable
- c. Data Type: INTEGER
- d. Char length: -

43. TargetManual3

- a. This field will entry with daily weighted value of production in selected unit to adjust the calculation of all variable. Value by default is same with TargetSystem3
- b. Entry manually using numeric
- c. Field Type: Mandatory and editable
- d. Data Type: INTEGER
- e. Char length: -

44. TargetManual4

- a. This field will entry with daily weighted value of production in selected unit to adjust the calculation of all variable. Value by default is same with TargetSystem4
- b. Field Type: Mandatory and editable
- c. Data Type: INTEGER
- d. Char length: -

45. TargetManual5

- a. This field will entry with daily weighted value of production in selected unit to adjust the calculation of all variable. Value by default is same with TargetSystem5
- b. Field Type: Mandatory and editable
- c. Data Type: INTEGER



d. Char length: -

46. TargetManual6

- a. This field will entry with daily weighted value of production in selected unit to adjust the calculation of all variable. Value by default is same with TargetSystem6
- b. Field Type: Mandatory and editable
- c. Data Type: INTEGER
- d. Char length: -

47. TargetManual7

- a. This field will entry with daily weighted value of production in selected unit to adjust the calculation of all variable. Value by default is same with TargetSystem7
- b. Field Type: Mandatory and editable
- c. Data Type: INTEGER
- d. Char length: -

48. ProcessWorkHours1

- a. Value by default is taken from MstGenStandardHours from day Senin
- b. Changes value in ProcessWorkHours1 in selected day.
- c. Field Type: Mandatory and editable
- d. Data Type: INTEGER
- e. Char length

49. ProcessWorkHours2

- a. Value by default is taken from MstGenStandardHours from day Selasa
- b. Changes value in ProcessWorkHours2 in selected day.
- c. Field Type: Mandatory and editable
- d. Data Type: INTEGER
- e. Char length

50. ProcessWorkHours3

- a. Value by default is taken from MstGenStandardHours from day Rabu
- b. Changes value in ProcessWorkHours3 in selected day.
- c. Field Type: Mandatory and editable
- d. Data Type: INTEGER
- e. Char length

51. ProcessWorkHours4

- a. Value by default is taken from MstGenStandardHours from day Kamis
- b. Changes value in ProcessWorkHours4 in selected day.



c. Field Type: Mandatory and editable

d. Data Type: INTEGER

e. Char length

52. ProcessWorkHours5

a. Value by default is taken from MstGenStandardHours from day Jumat

b. Changes value in ProcessWorkHours5 in selected day.

c. Field Type: Mandatory and editable

d. Data Type: INTEGER

e. Char length

53. ProcessWorkHours6

a. Value by default is taken from MstGenStandardHours from day Sabtu

b. Changes value in ProcessWorkHours6 in selected day.

c. Field Type: Mandatory and editable

d. Data Type: INTEGER

e. Char length

54. ProcessWorkHours7

a. Value by default is taken from MstGenStandardHours from day Minggu

b. Changes value in ProcessWorkHours7 in selected day.

c. Field Type: Mandatory and editable

d. Data Type: INTEGER

e. Char length

55. TotalWorkhours

a. Calculation: \sum ProcessWorkHours1-7 in a week

b. Changes value in ProcessWorkHours1-7 will update to this field

56. TotalTargetSystem

a. Calculation: \sum TargetSystem1-7 in a week

b. Changes value in TargetSystem1-7 will update to this field

57. TotalTargetManual

a. Calculation: \sum TargetManual1-7 in a week

b. Changes value in TargetManual1-7 will update to this field

58. CreatedDate:

a. This field will be generated if the row is inserted

b. Automatically generated by system, use Server Date and Time as reference

c. Field Type: Mandatory and Uneditable



d. Data Type: DATETIME

e. Char length: -

59. CreatedBy:

- a. This field will be generated automatically by the system with entries employee ID of windows logon information (User Responsibility)
- b. Automatically updated
- c. Field Type: Mandatory and Uneditable
- d. Data Type: VARCHAR
- e. Char length: 64 character

60. UpdatedDate:

- a. This field will be updated if the row is inserted, changed and saved
- b. Automatically updated by system, use Server Date and Time as reference
- c. Field Type: Mandatory and Editable by System
- d. Data Type: DATETIME
- e. Char length: -

61. UpdatedBy:

- a. This field will be updated automatically by the system with entries employee ID of windows logon information (User Responsibility)
- b. Automatically updated
- c. Field Type: Mandatory and Editable by System
- d. Data Type: DATETIME
- e. Char length: -

Development Notes:

Changes value in ProcessWorkHours atau WorkerAlocation (TPU Process) bukan SSIS

Changes value in ProcessWorkHours or WorkerAlocation (TPU Process) will update **BOBOT** value. Every changes can be recalculate by clicking Calculate button.

Change type is divided into two types **BOBOT**, BOBOT Target System and BOBOT Target Manual.

1. BOBOT Target System will use calculation like in above.
2. BOBOT Manual akan menggunakan perhitungan sebagai berikut :
 - a. Variable a = Current TargetManual X WorkerAlocation X ProcessWorkHours (per unit)
 - b. Variable b = \sum Variable a from all unit (in one day)
 - c. TargetManual (after changes) = a (for unit in one day)/b X Target Value from WPP.



Changes in EmployeeNumber or Absent Employee /Cuti/Sakit Berkepanjangan

Data in WorkerAbsenteeism is changed, will caused new row for next absence in Group or cerate new EmployeeNumber.

For example:

EmployeeID (1) with EmployeeNumber (120109), StartAbsent from 01/09/2015 and EndAbsent 15/10/2015.

In 20/09/2015, EmployeeNumber changed into (220109) so the EndDate absent for employeeID (1) will be changed with date 20/09/2015 (UpdatedDate of EmployeeNumber) then will be created new row for EmployeeID (1) with EmployeeNumber (220109) with StartAbsent is 20/09/2015 and EndAbsent is 15/10/2015.

Currently, WorkerAbsenteeism belum menggunakan EmployeeNumber sehingga untuk perhitungan Attendance pada proses SSIS melakukan join dengan tabel MstEmpJobDataAcv.

Penghilangan tombol calculate, pada menu productionplanning-plant-TPU, hal ini karena perhitungan perubahan alokasi dan workhours langsung dilakukan. Untuk checking total target manual dilakukan pada saat melakukan save, dimana untuk nilai total target manual **harus** sama dengan target wpp.

3.1.3 Plant Production Group Target (TPK)

Description:

The production planning which calculate the production capacity of each production group based on production volume target of selected unit and week, number of worker in each group, daily working hour, and weighted average 3 weeks historical data of productivity and the percentage of daily attendance. The production planning which approved by operation management. The production planning should be aligned with TPO Production Entry (Eblek).

User Interface (UI): Excel-like in Internet Explorer v.11

Day	Monday										Tuesday										Wednesday									
	Date					09/03/2015					10/03/2015					11/03/2015														
	Work Hours		7			7		7																						
Process	Group	Registered	Available	Allocation	% Attendance	Historical Capacity		Target		% Attendance	Historical Capacity		Target		% Attendance	Historical Capacity		WIP												
						Worker	Unit	System	Manual		Worker	Unit	System	Manual		Worker	Unit		System	Manual										
GILING	1143	6	6	6	0	0	0	0	20	20	0	0	0	0	20	20	0	0	0	0										
Total	1	1	1	6					20	20					20	20														
GUNTING	2143	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
Total	25	25	25	50					0	0					0	0	0	0	0	0										

Figure 3. 8 Plant Production Group Target (TPK)

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JK Process User Interface (UI): Pop up

	Previous	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Rolling	35	35	35	35	35	35	25	0
Cutting	20	35	35	35	35	35	25	0
Packing	20	35	35	35	35	35	25	0
Banderol	20	35	35	35	35	35	25	0

Figure 3. 9 Jam Kerja Process (Process Group Working Hours)

WIP Stock User Interface (UI): Pop up

	Previous	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Cutting	35	35	35	35	35	35	25	0
Packing	20	35	35	35	35	35	25	0

Figure 3. 10 WIP Stock (Work in Process Stock)

Other User Interface affected:

1. Employee (Employee Selection/ Allocation)
2. Jam Kerja Process (Process Group Working Hours)
3. WIP Stock (Work in Process Stock)
4. Group Shift Assignment
5. Worker Assignment
6. Worker Balancing (not mandatory to update page)

Output:

1. Calculated daily production target of each production Employee in Group to Plant Production Entry (Eblek) based on daily working hours
2. Send e-mail notification to Plany Production Entry (Eblek) PIC

Filter Field:

1. Location:
 - a. Type: Filter Field, nested with filter Brand Group



- b. Source: Table MstGenProcessSettings and MstGenProcessSettingsLocation
- c. Field Type: Combobox
- 2. Brand
 - a. Type: Filter Field
 - b. Source: Table MstGenBrand
 - c. Field Type: Combobox
- 3. KPS Year:
 - a. Type: Filter Field
 - b. Source: Table MstGenWeek, by default show current year
 - c. Field Type: Combobox
- 4. KPS Week:
 - a. Type: Filter Field
 - b. Source: Table MstGenWeek, by default show next week
 - c. Field Type: Combobox

Action Button in Landing Page:

- a. View: Preview the filtered data from table PlanPlantTargetProductionKelompok
- b. JK Process: Button to open JK Process pop up
- c. WIP Stock: Button to open WIP Stock Detail pop up
- d. Save: Save data to table PlanPlantTargetProductionKelompok
- e. Excel: Export data with determined format excel file
- f. Submit:
 - Update data to table PlanPlantTargetProductionKelompok
 - Entry data to ExePlantProductionEntry
 - SSIS function will generate Plant Production Entry (Eblek)
 - Send e-mail notification to Plant Production Entry (Eblek) PIC

Action Button in JK Process pop up:

- a. Save:
 - Button to entry working hours when there are differences between each unit
 - Save data ProcessWorkHours1-7 to table PlanPlantTargetProductionKelompok
- b. Cancel: Close pop up and cancelling to edit data

Action Button in WIP Stock pop up:

- a. Save:



- Button to entry WIP Stock that need to produce when there are previous wip from previous production activity
 - Save data WIP1-7 to table PlanPlantWIPDetail
- b. Cancel: Close pop up and cancelling to edit data

Export File Format:

The Target Production Kelompok (TPK) file of export result is determined with Excel format (*.x/sx) and contains Feature Name, Filter Fields, Filter Options, and Data Table.

Exported file name: ProductionPlanning_TargetProductionKelompok_<current date>.xlsx

E-mail Notification Format:

<p>Dear, <User Name></p> <p><Feature Name> is just generated. Please find the page with the following file or link attachments:</p> <p><Feature Name> <http://skt-dev.t1.voxteneo.com/id/FeatureName/LocationCode></p> <p>Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.</p> <hr/> <p>The information contained in this email is or may be confidential, legally privileged, and proprietary in nature or otherwise protected by law from disclosure and is intended solely for the use of the addressee. If you are not the intended recipient, you are hereby notified that any disclosure, dissemination, distribution, copying or use of any part of this mail is strictly prohibited and unlawful. If you received this email in error, please immediately notify the sender or our email administrator at postmaster@sampoerna.com and delete it from your system. Thank you.</p>
--

Figure 3. 11 E-mail Notification Format

Responsibility: SKT Plant Production Supervisor (PPS)

Duration:

Submission from Plant Production Supervisor (PPS) should be done on weekly basis every Friday at the latest on previous week, and could change if any on current week, planning for the next week should be submitted on Friday this week at the latest.

Table: PlanPlantTargetProductionKelompok

Field Name	PK	FK	Unique	Mandatory	Auto	Reference Table

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TPKPlantStartProductionDate	Yes	No	No	Yes	No	-
KPSYear	Yes	No	No	Yes	No	-
KPSWeek	Yes	No	No	Yes	No	-
GroupCode	Yes	Yes	No	Yes	No	MstPlantProductionGroup
UnitCode	Yes	Yes	No	Yes	No	MstPlantProductionGroup
LocationCode	Yes	Yes	No	Yes	No	MstPlantProductionGroup
ProcessGroup	Yes	Yes	No	Yes	No	MstGenProcess
BrandCode	Yes	Yes	No	Yes	No	MstGenBrand
TPKCode	No	No	No	No	No	-
Shift	No	No	No	No	No	-
WorkerRegister	No	No	No	No	No	-
WorkerAvailable	No	No	No	No	No	-
WorkerAlocation	No	No	No	No	No	-
WIPStock	No	No	No	No	No	-
WIP1	No	No	No	No	No	-
WIP2	No	No	No	No	No	-
WIP3	No	No	No	No	No	-
WIP4	No	No	No	No	No	-
WIP5	No	No	No	No	No	-
WIP6	No	No	No	No	No	-
WIP7	No	No	No	No	No	-
PercentAttendance1	No	No	No	No	No	-
PercentAttendance2	No	No	No	No	No	-
PercentAttendance3	No	No	No	No	No	-
PercentAttendance4	No	No	No	No	No	-
PercentAttendance5	No	No	No	No	No	-
PercentAttendance6	No	No	No	No	No	-
PercentAttendance7	No	No	No	No	No	-
HistoricalCapacityWorker1	No	No	No	No	No	-
HistoricalCapacityWorker2	No	No	No	No	No	-
HistoricalCapacityWorker3	No	No	No	No	No	-
HistoricalCapacityWorker4	No	No	No	No	No	-
HistoricalCapacityWorker5	No	No	No	No	No	-
HistoricalCapacityWorker6	No	No	No	No	No	-
HistoricalCapacityWorker7	No	No	No	No	No	-
HistoricalCapacityGroup1	No	No	No	No	No	-
HistoricalCapacityGroup2	No	No	No	No	No	-
HistoricalCapacityGroup3	No	No	No	No	No	-
HistoricalCapacityGroup4	No	No	No	No	No	-
HistoricalCapacityGroup5	No	No	No	No	No	-
HistoricalCapacityGroup6	No	No	No	No	No	-
HistoricalCapacityGroup7	No	No	No	No	No	-
TargetSystem1	No	No	No	No	No	-
TargetSystem2	No	No	No	No	No	-
TargetSystem3	No	No	No	No	No	-
TargetSystem4	No	No	No	No	No	-

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TargetSystem5	No	No	No	No	No	-
TargetSystem6	No	No	No	No	No	-
TargetSystem7	No	No	No	No	No	-
TargetManual1	No	No	No	No	No	-
TargetManual2	No	No	No	No	No	-
TargetManual3	No	No	No	No	No	-
TargetManual4	No	No	No	No	No	-
TargetManual5	No	No	No	No	No	-
TargetManual6	No	No	No	No	No	-
TargetManual7	No	No	No	No	No	-
ProcessWorkHours1	No	No	No	No	No	-
ProcessWorkHours2	No	No	No	No	No	-
ProcessWorkHours3	No	No	No	No	No	-
ProcesstWorkHours4	No	No	No	No	No	-
ProcessWorkHours5	No	No	No	No	No	-
ProcessWorkHours6	No	No	No	No	No	-
ProcessWorkHours7	No	No	No	No	No	-
TotalWorkhours	No	No	No	No	No	-
TotalTargetSystem	No	No	No	No	No	-
TotalTargetManual	No	No	No	No	No	-
CreatedDate	No	No	No	Yes	Yes	-
CreatedBy	No	No	No	Yes	Yes	-
UpdatedDate	No	No	No	Yes	Yes	-
UpdatedBy	No	No	No	Yes	Yes	-

Fields:

1. TPKPlantStartProductionDate
 - a. This field will entry production start date, depend on the start date of KPS Week
 - b. Field Type: Mandatory and Uneditable
 - c. Data Type: DATE
 - d. Char length: -
2. KPSYear:
 - a. This field will entry with KPS Week information
 - b. This field list is populated from table MstGenWeek
 - c. Default value is year of current year
 - d. Field Type: Mandatory and Uneditable
 - e. Data Type: INTEGER
 - f. Char length: -
3. KPSWeek:
 - a. This field will entry with KPS Week information



- b. This field list is populated from table MstGenWeek
- c. Default value is week from uploaded excel file
- d. Field Type: Mandatory and Editable by System
- e. Data Type: INTEGER
- f. Char length: -

4. BrandCode:

- a. This field will entry with Brand Code
- b. This field list is populated from table MstGenBrand
- c. Field Type: Mandatory and Uneditable
- d. Data Type: VARCHAR
- e. Char length: 11

5. BrandGroupCode:

- a. This field will entry with Brand Group Code
- b. This field list is populated from table MstGenBrandGroup
- c. Field Type: Mandatory and Uneditable
- d. Data Type: VARCHAR
- e. Char length: 20

6. LocationCode:

- a. This field will entry with Brand Group Code
- b. This field list is nested from chosen Brand Group Filter in UI
- c. Field Type: Mandatory and Uneditable
- d. Data Type: VARCHAR
- e. Char length: 8

7. Shift:

- a. Name in UI: Shift
- b. Function in UI: Filter Input
- c. This field will entry with Production Shift The value is taken from selected Location
- d. This field can be setup in Master General Location and Group Shift
- e. This production shift will applied to new plant
- f. Field Type: Mandatory and Uneditable
- g. Data Type: INTEGER
- h. Char length: -

8. UnitCode:

- a. This field list is auto-generated from MstPlantUnit, nested with selected Location



b. Field Type: Mandatory and Uneditable

c. Data Type: VARCHAR

d. Char length: 4

9. TPKCode:

a. This is combine key from Location Code, Brand Code, Unit Code, KPS Year and KPS Week

b. Field Type: Mandatory and Uneditable

c. Data Type: VARCHAR

d. Char length: 32

10. WorkerRegister

a. This Available Worker Number field will be updated automatically by the system with number of worker of each production unit in selected location, shift and week

b. The value is weighted average 3 weeks historical data

c. Field Type: Mandatory and Editable by System

d. Data Type: INTEGER

e. Char length: -

11. WorkerAvailable

a. Name in UI: Available *under Rolling Worker column*

b. Function in UI: *Read-only text*

c. This field is to show value of available worker to allocate in Unit for next week. The value is taken from SSIS calculation

d. Default value as same as available number of worker minus planned long leave

e. Calculation: WorkerRegister – Absent Worker

f. Absent Worker: from WorkerAbsenteeism with StartAbsent <= StartDay of Week and EndAbsent >= EndDay of Week and MstPlantEmpJobDataAcv from selected Unit

g. Field Type: Mandatory and Editable by System (from latest user input)

h. Data Type: INTEGER

i. Char length: -

12. WorkerAllocation

a. Name in UI: Allocation *under Rolling Worker column*

b. Function in UI: Input Field with already populated default value

c. This Allocated Worker Number data will entry with allocated number of worker of each production unit in selected location, shift and week

d. WorkerAllocation, the value by default is same with WorkerAvailable

e. Field Type: Mandatory and Editable by System (from latest user input)

f. Data Type: INTEGER



g. Char length: -

13. WIPStock

- a. Field Type: Mandatory and Editable by System (from latest user input)
- b. Data Type: INTEGER
- c. Char length: -

14. WIP1

- a. Field to entry Work in Process value of previous week, then produce in day Senin
- b. Field Type: Mandatory and Editable by System (from latest user input)
- c. Data Type: INTEGER
- d. Char length: -

15. WIP2

- a. Field to entry Work in Process value of previous week, then produce in day Selasa
- b. Field Type: Mandatory and Editable by System (from latest user input)
- c. Data Type: INTEGER
- d. Char length: -

16. WIP3

- a. Field to entry Work in Process value of previous week, then produce in day Rabu
- b. Field Type: Mandatory and Editable by System (from latest user input)
- c. Data Type: INTEGER
- d. Char length: -

17. WIP4

- a. Field to entry Work in Process value of previous week, then produce in day Kamis
- b. Field Type: Mandatory and Editable by System (from latest user input)
- c. Data Type: INTEGER
- d. Char length: -

18. WIP5

- a. Field to entry Work in Process value of previous week, then produce in day Jumat
- b. Field Type: Mandatory and Editable by System (from latest user input)
- c. Data Type: INTEGER
- d. Char length: -

19. WIP6

- a. Field to entry Work in Process value of previous week, then produce in day Sabtu
- b. Field Type: Mandatory and Editable by System (from latest user input)
- c. Data Type: INTEGER



- d. Char length: -

20. WIP7

- a. Field to entry Work in Process value of previous week, then produce in day Minggu
- b. Field Type: Mandatory and Editable by System (from latest user input)
- c. Data Type: INTEGER
- d. Char length: -

21. PercentAttendance1

- a. Name in UI: % Attendance *under Senin column in UI*
- b. Function in UI: *Read-only text*
- c. This field is to entry value attendance percentage under Senin column in UI. Calculated from average 3 weeks historical data of percentage of daily attendance in the same day: Senin
- d. PercentAttendance1: Data is taken from ProductionCard, calculate every employee that attend in Unit and Group
- e. Calculation: Get the absent Employee in Senin with "Actual Production" != 0 atau Upah Lain != 0. $(\text{WorkerRegister} - \text{Absent}) / \text{WorkerRegister} * 100\%$
- f. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)
- g. Data Type: INTEGER
- h. Char length: -

22. PercentAttendance2

- a. Name in UI: % Attendance *under Selasa column in UI*
- b. Function in UI: *Read-only text*
- c. This field is to entry value attendance percentage under Selasa column in UI. Calculated from average 3 weeks historical data of percentage of daily attendance of each production unit in selected location, shift and week in the same Selasa
- d. Calculation: Get the absent Employee in Selasa with "Actual Production" != 0 atau Upah Lain != 0. $(\text{WorkerRegister} - \text{Absent}) / \text{WorkerRegister} * 100\%$
- e. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)
- f. Data Type: INTEGER
- g. Char length: -

23. PercentAttendance3

- a. Name in UI: % Attendance *under Rabu column in UI*
- b. Function in UI: *Read-only text*
- c. This field is to entry value attendance percentage under Rabu column in UI. Calculated from average 3 weeks historical data of percentage of daily attendance of each production unit in selected location, shift and week in the same Rabu



- d. Calculation: Get the absent Employee in Rabu with “Actual Production” != 0 atau Upah Lain != 0.
 $(\text{WorkerRegister} - \text{Absent}) / \text{WorkerRegister} * 100\%$
- e. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)
- f. Data Type: INTEGER
- g. Char length: -

24. PercentAttendance4

- a. Name in UI: % Attendance under Kamis column in UI
- b. Function in UI: *Read-only text*
- c. This field is to entry value attendance percentage under Kamis column in UI. Calculated from average 3 weeks historical data of percentage of daily attendance of each production unit in selected location, shift and week in the same Kamis
- d. The value is weighted average 3 weeks historical data
- e. Calculation: Get the absent Employee in Kamis with “Actual Production” != 0 atau Upah Lain != 0.
 $(\text{WorkerRegister} - \text{Absent}) / \text{WorkerRegister} * 100\%$
- f. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)
- g. Data Type: INTEGER
- h. Char length: -

25. PercentAttendance5

- a. Name in UI: % Attendance under Jumat column in UI
- b. Function in UI: *Read-only text*
- c. This field is to entry value attendance percentage under Jumat column in UI. Calculated from average 3 weeks historical data of percentage of daily attendance of each production unit in selected location, shift and week in the same Jumat
- d. Calculation: Get the absent Employee in Jumat with “Actual Production” != 0 atau Upah Lain != 0.
 $(\text{WorkerRegister} - \text{Absent}) / \text{WorkerRegister} * 100\%$
- e. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)
- f. Data Type: INTEGER
- g. Char length: -

26. PercentAttendance6

- a. Name in UI: % Attendance under Sabtu column in UI
- b. Function in UI: *Read-only text*
- c. This field is to entry value attendance percentage under Sabtu column in UI. Calculated from average 3 weeks historical data of percentage of daily attendance of each production unit in selected location, shift and week in the same Sabtu



- d. Calculation: Get the absent Employee in Sabtu with "Actual Production" != 0 atau Upah Lain != 0.
 $(\text{WorkerRegister} - \text{Absent}) / \text{WorkerRegister} * 100\%$
- e. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)
- f. Data Type: INTEGER
- g. Char length: -

27. PercentAttendance7

- a. Name in UI: % Attendance under Minggu column in UI
- b. Function in UI: *Read-only text*
- c. This field is to entry value attendance percentage under Minggu column in UI. Calculated from average 3 weeks historical data of percentage of daily attendance of each production unit in selected location, shift and week in the same Minggu
- d. Calculation: Get the absent Employee in Minggu with "Actual Production" != 0 atau Upah Lain != 0.
 $(\text{WorkerRegister} - \text{Absent}) / \text{WorkerRegister} * 100\%$
- e. Field Type: Mandatory and Editable by System (from latest absence in WorkerAbsenteeism)
- f. Data Type: INTEGER
- g. Char length: -

28. HistoricalCapacityWorker1

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of production unit in selected location, unit, shift and week
- b. HistoricalCapacityWorker: Data is taken from ProductionCard, calculate every employee
- c. Calculation: $(\text{Total of Actual Production} + \text{Total of Upah Lain}) / \text{Total of Work Hours in week}$
- d. The value is weighted average 3 weeks historical data
- e. Field Type: Mandatory
- f. Data Type: INTEGER
- g. Char length: -

29. HistoricalCapacityWorker2

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of production unit in selected location, unit, shift and week
- b. HistoricalCapacityWorker: Data is taken from ProductionCard, calculate every employee
- c. Calculation: $(\text{Total of Actual Production} + \text{Total of Upah Lain}) / \text{Total of Work Hours in week}$
- d. The value is weighted average 3 weeks historical data
- e. Field Type: Mandatory
- f. Data Type: INTEGER
- g. Char length: -

30. HistoricalCapacityWorker3



- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of production unit in selected location, unit, shift and week
- b. HistoricalCapacityWorker: Data is taken from ProductionCard, calculate every employee
- c. Calculation: $(\text{Total of Actual Production} + \text{Total of Upah Lain}) / \text{Total of Work Hours in week}$
- d. The value is weighted average 3 weeks historical data
- e. Field Type: Mandatory
- f. Data Type: INTEGER
- g. Char length: -

31. HistoricalCapacityWorker4

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of production unit in selected location, unit, shift and week
- b. HistoricalCapacityWorker: Data is taken from ProductionCard, calculate every employee
- c. Calculation: $(\text{Total of Actual Production} + \text{Total of Upah Lain}) / \text{Total of Work Hours in week}$
- d. The value is weighted average 3 weeks historical data
- e. Field Type: Mandatory
- f. Data Type: INTEGER
- g. Char length: -

32. HistoricalCapacityWorker5

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of production unit in selected location, unit, shift and week
- b. HistoricalCapacityWorker: Data is taken from ProductionCard, calculate every employee
- c. Calculation: $(\text{Total of Actual Production} + \text{Total of Upah Lain}) / \text{Total of Work Hours in week}$
- d. The value is weighted average 3 weeks historical data
- e. Field Type: Mandatory
- f. Data Type: INTEGER
- g. Char length: -

33. HistoricalCapacityWorker6

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of production unit in selected location, unit, shift and week
- b. HistoricalCapacityWorker: Data is taken from ProductionCard, calculate every employee
- c. Calculation: $(\text{Total of Actual Production} + \text{Total of Upah Lain}) / \text{Total of Work Hours in week}$
- d. The value is weighted average 3 weeks historical data
- e. Field Type: Mandatory
- f. Data Type: INTEGER
- g. Char length: -



34. HistoricalCapacityWorker7

- a. This Worker Productivity field will be updated automatically by the system with daily worker productivity of production unit in selected location, unit, shift and week
- b. HistoricalCapacityWorker: Data is taken from ProductionCard, calculate every employee
- c. Calculation: (Total of Actual Production + Total of Upah Lain) / Total of Work Hours in week
- d. The value is weighted average 3 weeks historical data
- e. Field Type: Mandatory
- f. Data Type: INTEGER
- g. Char length: -

35. HistoricalCapacityGroup1

- a. This Worker Productivity from Group field will be updated automatically by the system with daily worker productivity of production group in selected location, unit, shift, group and week
- b. The value is weighted average 3 weeks historical data
- c. Calculation: (WorkerAlocation * HistoricalCapacityWorker1 from selected Group)
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

36. HistoricalCapacityGroup2

- a. This Worker Productivity from Group field will be updated automatically by the system with daily worker productivity of production group in selected location, unit, shift, group and week
- b. The value is weighted average 3 weeks historical data
- c. Calculation: (WorkerAlocation * HistoricalCapacityWorker2 from selected Group)
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

37. HistoricalCapacityGroup3

- a. This Worker Productivity from Group field will be updated automatically by the system with daily worker productivity of production group in selected location, unit, shift, group and week
- b. The value is weighted average 3 weeks historical data
- c. Calculation: (WorkerAlocation * HistoricalCapacityWorker3 from selected Group)
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

38. HistoricalCapacityGroup4



- a. This Worker Productivity from Group field will be updated automatically by the system with daily worker productivity of production group in selected location, unit, shift, group and week
- b. The value is weighted average 3 weeks historical data
- c. Calculation: (WorkerAlocation * HistoricalCapacityWorker4 from selected Group)
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

39. HistoricalCapacityGroup5

- a. This Worker Productivity from Group field will be updated automatically by the system with daily worker productivity of production group in selected location, unit, shift, group and week
- b. The value is weighted average 3 weeks historical data
- c. Calculation: (WorkerAlocation * HistoricalCapacityWorker5 from selected Group)
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

40. HistoricalCapacityGroup6

- a. This Worker Productivity from Group field will be updated automatically by the system with daily worker productivity of production group in selected location, unit, shift, group and week
- b. The value is weighted average 3 weeks historical data
- c. Calculation: (WorkerAlocation * HistoricalCapacityWorker6 from selected Group)
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

41. HistoricalCapacityGroup7

- a. This Worker Productivity from Group field will be updated automatically by the system with daily worker productivity of production group in selected location, unit, shift, group and week
- b. The value is weighted average 3 weeks historical data
- c. Calculation: (WorkerAlocation * HistoricalCapacityWorker7 from selected Unit)
- d. Field Type: Mandatory
- e. Data Type: INTEGER
- f. Char length: -

42. TargetSystem1

- a. This Production Value field is the calculation of production volume of selected location, unit, shift, process, group, week, allocated number of worker per process, daily working hour, weighted



average 3 weeks historical data of hourly worker productivity and the percentage of daily attendance

- b. Calculation BOBOT: Capacity Group x % Attendance (Selected Group in day: Senin) x ProcessWorkHours (Selected Group in day: Senin)
- c. Calculation Target System: BOBOT (Selected Group in day: Senin)/ Bobot All Group (satu week) x Target from WPP.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours1
- e. Data Type: INTEGER
- f. Char length: -

43. TargetSystem2

- a. This Production Value field is the calculation of production volume of selected location, unit, shift, process, group, week, allocated number of worker per process, daily working hour, weighted average 3 weeks historical data of hourly worker productivity and the percentage of daily attendance
- b. Calculation BOBOT: Capacity Group x % Attendance (Selected Group in day: Selasa) x ProcessWorkHours (Selected Unit in day: Selasa)
- c. Calculation Target System: BOBOT (Selected Group in day: Selasa)/ Bobot All Group (satu week) x Target from WPP.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours2
- e. Data Type: INTEGER
- f. Char length: -

44. TargetSystem3

- a. This Production Value field is the calculation of production volume of selected location, unit, shift, process, group, week, allocated number of worker per process, daily working hour, weighted average 3 weeks historical data of hourly worker productivity and the percentage of daily attendance
- b. Calculation BOBOT: Capacity Group x % Attendance (Selected Group in day: Rabu) x ProcessWorkHours (Selected Unit in day: Rabu)
- c. Calculation Target System: BOBOT (Group hari Rabu)/ Bobot All Group (satu week) x Target from WPP.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours3
- e. Data Type: INTEGER
- f. Char length: -

45. TargetSystem4

- a. This Production Value field is the calculation of production volume of selected location, unit, shift, process, group, week, allocated number of worker per process, daily working hour, weighted



average 3 weeks historical data of hourly worker productivity and the percentage of daily attendance

- b. Calculation BOBOT: Capacity Group x % Attendance (Selected Group in day: Kamis) x ProcessWorkHours (Selected Group in day: Kamis)
- c. Calculation Target System: BOBOT (Group hari Kamis)/ Bobot All Group (satu week) x Target from WPP.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours4
- e. Data Type: INTEGER
- f. Char length: -

46. TargetSystem5

- a. This Production Value field is the calculation of production volume of selected location, unit, shift, process, group, week, allocated number of worker per process, daily working hour, weighted average 3 weeks historical data of hourly worker productivity and the percentage of daily attendance
- b. Calculation BOBOT: Capacity Group x % Attendance (Selected Group in day: Jumat) x ProcessWorkHours (Selected Group in day: Jumat)
- c. Calculation Target System: BOBOT (Group hari Jumat)/ Bobot All Group (satu week) x Target from WPP.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours5
- e. Data Type: INTEGER
- f. Char length: -

47. TargetSystem6

- a. This Production Value field is the calculation of production volume of selected location, unit, shift, process, group, week, allocated number of worker per process, daily working hour, weighted average 3 weeks historical data of hourly worker productivity and the percentage of daily attendance
- b. Calculation BOBOT: Capacity Group x % Attendance (Selected Group in day: Sabtu) x ProcessWorkHours (Selected Group in day: Sabtu)
- c. Calculation Target System: BOBOT (Group hari Sabtu)/ Bobot All Group (satu week) x Target from WPP.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours6
- e. Data Type: INTEGER
- f. Char length: -

48. TargetSystem7

- a. This Production Value field is the calculation of production volume of selected location, unit, shift, process, group, week, allocated number of worker per process, daily working hour, weighted



average 3 weeks historical data of hourly worker productivity and the percentage of daily attendance

- b. Calculation BOBOT: Capacity Group x % Attendance (Selected Group in day: Minggu) x ProcessWorkHours (Selected Unit in day: Minggu)
- c. Calculation Target System: BOBOT (Group hari Minggu)/ Bobot All Group (satu week) x Target from WPP.
- d. Field Type: Mandatory and updated if there is update in ProcessWorkHours7
- e. Data Type: INTEGER
- f. Char length: -

49. TargetManual1

- a. This Weighted Value field from TargetSystem and will entry with daily weighted value of production group in selected selected location, shift, unit, process, group, week, to adjust the calculation of all variable
- b. Value by default is same with TargetSystem1
- c. Entry manually using numeric
- d. Field Type: Mandatory and editable
- e. Data Type: INTEGER
- f. Char length: -

50. TargetManual2

- a. This Weighted Value field from TargetSystem and will entry with daily weighted value of production group in selected selected location, shift, unit, process, group, week, to adjust the calculation of all variable
- b. Value by default is same with TargetSystem2
- c. Entry manually using numeric
- d. Field Type: Mandatory and editable
- e. Data Type: INTEGER
- f. Char length: -

51. TargetManual3

- a. This Weighted Value field from TargetSystem and will entry with daily weighted value of production group in selected selected location, shift, unit, process, group, week, to adjust the calculation of all variable
- b. Value by default is same with TargetSystem3
- c. Entry manually using numeric
- d. Field Type: Mandatory and editable
- e. Data Type: INTEGER



f. Char length: -

52. TargetManual4

- a. This Weighted Value field from TargetSystem and will entry with daily weighted value of production group in selected selected location, shift, unit, process, group, week, to adjust the calculation of all variable
- b. Value by default is same with TargetSystem4
- c. Entry manually using numeric
- d. Field Type: Mandatory and editable
- e. Data Type: INTEGER
- f. Char length: -

53. TargetManual5

- a. This Weighted Value field from TargetSystem and will entry with daily weighted value of production group in selected selected location, shift, unit, process, group, week, to adjust the calculation of all variable
- b. Value by default is same with TargetSystem5
- c. Entry manually using numeric
- d. Field Type: Mandatory and editable
- e. Data Type: INTEGER
- f. Char length: -

54. TargetManual6

- a. This Weighted Value field from TargetSystem and will entry with daily weighted value of production group in selected selected location, shift, unit, process, group, week, to adjust the calculation of all variable
- b. Value by default is same with TargetSystem6
- c. Entry manually using numeric
- d. Field Type: Mandatory and editable
- e. Data Type: INTEGER
- f. Char length: -

55. TargetManual7

- a. This Weighted Value field from TargetSystem and will entry with daily weighted value of production group in selected selected location, shift, unit, process, group, week, to adjust the calculation of all variable
- b. Value by default is same with TargetSystem7
- c. Entry manually using numeric
- d. Field Type: Mandatory and editable



- e. Data Type: INTEGER
- f. Char length: -

56. ProcessWorkHours1

- a. Value by default is taken from MstGenStandardHours from day Senin
- b. Weighted average 3 weeks historical data
- c. Changes value in ProcessWorkHours or WorkerAlocation will cause change to TargetSystem of selected day.

57. ProcessWorkHours2

- a. Value by default is taken from MstGenStandardHours from day Selasa
- b. Weighted average 3 weeks historical data
- c. Changes value in ProcessWorkHours or WorkerAlocation will cause change to TargetSystem of selected day.

58. ProcessWorkHours3

- a. Value by default is taken from MstGenStandardHours from day Rabu
- b. Weighted average 3 weeks historical data
- c. Changes value in ProcessWorkHours or WorkerAlocation will cause change to TargetSystem of selected day.

59. ProcessWorkHours4

- a. Value by default is taken from MstGenStandardHours from day Kamis
- b. Weighted average 3 weeks historical data
- c. Changes value in ProcessWorkHours or WorkerAlocation will cause change to TargetSystem of selected day.

60. ProcessWorkHours5

- a. Value by default is taken from MstGenStandardHours from day Jumat
- b. Weighted average 3 weeks historical data
- c. Changes value in ProcessWorkHours or WorkerAlocation will cause change to TargetSystem of selected day.

61. ProcessWorkHours6

- a. Value by default is taken from MstGenStandardHours from day Sabtu
- b. Weighted average 3 weeks historical data
- c. Changes value in ProcessWorkHours or WorkerAlocation will cause change to TargetSystem of selected day.

62. ProcessWorkHours7

- a. Value by default is taken from MstGenStandardHours from day Minggu
- b. Weighted average 3 weeks historical data



- c. Changes value in ProcessWorkHours or WorkerAllocation will cause change to TargetSystem of selected day.

63. TotalWorkhours

- a. This field is total of ProcessWorkHours1-7 in a week
- b. Changes value in ProcessWorkHours will update this field

64. TotalTargetSystem

- a. This field is total of TargetSystem1-7 in a week
- b. Perubahan TargetSystem will update this field

65. TotalTargetManual

- a. This field is total of TargetManual1-7 in a week
- b. Perubahan TargetManual will update this field

66. CreatedDate:

- a. This field will be generated if the row is inserted
- b. Automatically generated by system, use Server Date and Time as reference
- c. Field Type: Mandatory and Uneditable
- d. Data Type: DATETIME
- e. Char length: -

67. CreatedBy:

- a. This field will be generated automatically by the system with entries employee ID of windows logon information (User Responsibility)
- b. Automatically updated
- c. Field Type: Mandatory and Uneditable
- d. Data Type: VARCHAR
- e. Char length: 64 character

68. UpdatedDate:

- a. This field will be updated if the row is inserted, changed and saved
- b. Automatically updated by system, use Server Date and Time as reference
- c. Field Type: Mandatory and Editable by System
- d. Data Type: DATETIME
- e. Char length: -

69. UpdatedBy:

- a. This field will be updated automatically by the system with entries employee ID of windows logon information (User Responsibility)
- b. Automatically updated



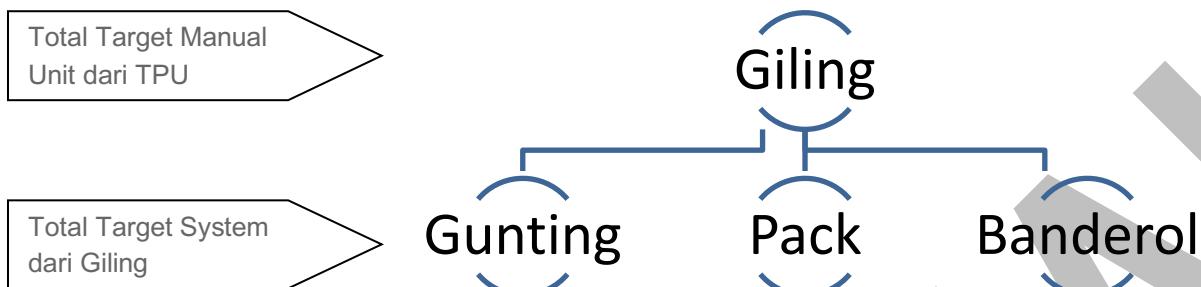
- c. Field Type: Mandatory and Editable by System
- d. Data Type: DATETIME
- e. Char length: -

TPU Generate TPK-Plant (SSIS)

1. WorkerRegister: Summary of dari workercount pada tabel mstPlantProductionGroup. Sesuai dengan production group dan group berdasarkan proses.
2. WorkerAlocation: By default == available
3. PercentAttendance1-7: Ambil dari production card,hitung setiap employee yang attedance untuk unit dan group itu sendiri(perhitungan %attedance, yang hadir(jika ada absent dikurangi)/register) – All proses, misal: jumlah register 80, absent 4, maka %attedance = 95%. Untuk mengetahuinya, cari nilai "production" != 0 atau Upah Lain != 0
4. HstoricalCapacityWorker: Ambil dari production card untuk group tersebut sesuai dengan process masing-masing, dan memakai rumus: Sum Production + Sum Upah Lain/Sum Work Hours
5. HstoricalCapacityGroup: WorkerAlocation * HstoricalCapacityWorker dari group tersebut. The calculation result should only 2 number behind decimal
6. WIP1-WIP7: By default = 0;
7. WIP Stock (table PlanPlantWIP Detail):
 - a. Nilai WIP Previous: Stock wip dari laporan produksi per proses.
Nilai currentvalue = Nilai previous
 - b. Nilai WIP Proses Cutting: Monday = 0, Tuesday = 0 (karena tidak ada selisih dengan nilai previousnya, previous Monday adalah Previous week, nilai sebelumnya Tuesday adalah nilai Monday). Untuk proses yang terdampak dapat melihat note dibagian bawah untuk detailnya.

	Previous	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Cutting	35	35	35	35	35	35	25	0
Packing	20	35	35	35	35	35	25	0

8. TargetManual: BY default shou== TargetSystem. Target System and Target Manual result should be rounded, using Microsoft rounding system, > 5 upper rournd. < 5 lower round.



9. Total:

- TargetSystem: \sum dari TargetSystem
- TargetManual: \sum dari TargetManual. Total manual **Tidak** Boleh melebihi nilai WPP.

10. Total (per proses)

- TargetSystem: \sum dari TargetSystem untuk satu proses
- TargetManual: \sum dari TargetManual untuk satu proses

Development Notes:

- Perhitungan data historical data, pada hari yang sama selama 3 minggu kebelakang.
- Perubahan WorkHours akan mengakibatkan perubahan JK pada hari tersebut.
- Perubahan JK proses akan mengakibatkan perubahan TargetSystem dan TargetManual
- Perubahan Target Manual

Calculation of Group and Shift:

Perhitungan data historical data, pada hari yang sama selama 3 minggu kebelakang. Melihat nilai shift dari location tersebut:

- Jika shift = 1, semua group akan dibawa ke TPK.
- Jika shift = 2, maka melakukan checking terhadap table planplantgroupshift, check untuk unit tersebut, group yang berada untuk shift 1 atau 2. Waktu generate ke TPK berdasarkan Unit dan Group sesuai dengan PlanPlantGroupShift.

Perubahan Allocation:

Worker Allocation value by default is same with Worker Available.

Recalculation: Update Historical Capacity Group 1..7 -> Update Bobot 1..7 -> Update Target System 1..7 -> Update Target Manual 1..7, since Target System = Target Manual

Formula:

Historical Capacity Group 1 = Historical Capacity Worker 1 x Allocation



Perubahan Target Manual:

Recalculation: Get Total Target Manual All Group in Week -> Update Target System 1-7 All Group -> Update Target Manual 1-7 All Group

Formula:

Calculate Bobot for Target Manual before calculating Target Manual.

Process Group --> ALL PROCESS

Target Manual ROLLING 1 (after changes) = Target Manual (after changes) ROLLING 1 / Total Bobot Target System All Group Code in 1 day x Total Target Manual from TPU 1

Target System CUTTING 1 = Target Manual CUTTING (after changes) 1 / Total Bobot Target System All Group Code CUTTING in the day 1 x Total Target System ROLLING 1

Target System PACKING 1 = Target Manual PACKING (after changes) 1 / Total Bobot Target System All Group Code PACKING in the day 1 x Total Target System ROLLING 1

Target System STAMPING 1 = Target Manual STAMPING (after changes) 1 / Total Bobot Target System All Group Code STAMPING in the day 1 x Total Target System ROLLING 1

Perubahan Work Hours (TPK Plant)

Perubahan work hours akan mengubah JK Proses pada hari tersebut.

Work Hours **TIDAK DAPAT Diedit**. Sesuai dengan jam kerja pada TPU.

Perubahan JK Proses akan mengakibatkan perubahan target by system dan manual

Perubahan JK Process bukan SSIS

Perubahan JK Proses akan berpengaruh terhadap **BOBOT**. Setiap perubahan tersebut dapat dilakukan ketika melakukan editing data langsung merubah data yang ada di user interface.

Update to value ProcessWorkHours1..7, depend on which day user editing JK.

Recalculation: Update Bobot 1-7 -> Update Target System 1-7 -> Update Target Manual 1-7, since Target System = Target Manual

Formula:

Historical Capacity Unit 1-7 = Allocation x Historical Capacity Worker 1-7

Calculate Bobot for Target System before calculating Target System.

Bobot and Target System per Process Group is separated to 1-7

Day: Senin



Process Group --> ROLLING

Bobot Target System ROLLING 1 = Historical Capacity Group ROLLING 1 x Percent Attendance ROLLING 1 x JK Process ROLLING 1

Target System ROLLING 1 = Bobot Target System ROLLING 1 / Total Bobot Target System All Group Code ROLLING in the day 1 x Total Target Manual from TPU in the day 1

Total Target System ROLLING 1 = Target System ROLLING 1 from All Group ROLLING

Day: Selasa

Process Group --> ROLLING

Bobot Target System ROLLING 2 = Historical Capacity Group ROLLING 2 x Percent Attendance ROLLING 2 x JK Process ROLLING 2

Target System ROLLING 2 = Bobot Target System ROLLING 2 / Total Bobot Target System All Group Code ROLLING in the day 2 x Total Target Manual from TPU in the day 2

Total Target System ROLLING 2 = Target System ROLLING 2 from All Group ROLLING

Day: Rabu

Process Group --> ROLLING

Bobot Target System ROLLING 3 = Historical Capacity Group ROLLING 3 x Percent Attendance ROLLING 3 x JK Process ROLLING 3

Target System ROLLING 3 = Bobot Target System ROLLING 3 / Total Bobot Target System All Group Code ROLLING in the day 3 x Total Target Manual from TPU in the day 3

Total Target System ROLLING 3 = Target System ROLLING 3 from All Group ROLLING

Example:

JK Process ROLLING Senin:

Update ProcessWorkHours1 All Group Process ROLLING

Update Bobot 1 All Group Process ROLLING

Update Target System 1 All Group Process ROLLING using Total Target Manual from TPU of the Unit

Update Total Target System ROLLING

Update Target System 1 All Group Process OTHER

Data is per Unit.

Calculating Bobot Target System is starting from Process Group --> ROLLING



Total Target System ROLLING will be used as reference for another Process Group --> CUTTING, PACKING, STAMPING, etc

Formula below are for day 1 (Senin)

Process Group --> CUTTING

Bobot Target System CUTTING 1 = Historical Capacity Group 1 CUTTING x Percent Attendance 1 CUTTING x JK Process 1 CUTTING

Target System CUTTING 1 = Bobot Target System 1 CUTTING / Total Bobot Target System All Group Code CUTTING in the day 1 x Total Target System 1 ROLLING

Process Group --> PACKING

Bobot Target System PACKING 1 = Historical Capacity Group 1 PACKING x Percent Attendance 1 CUTTING x JK Process 1 CUTTING

Target System PACKING 1 = Bobot Target System 1 PACKING / Total Bobot Target System All Group Code PACKING in the day 1 x Total Target System ROLLING 1

Process Group --> STAMPING

Target System STAMPING 1 = Bobot Target System 1 STAMPING / Total Bobot Target System All Group Code STAMPING in the day 1 x Total Target System 1 ROLLING

Perubahan WIP bukan SSIS (untuk TargetSystem dan TargetManual)

On WIP Stock pop up, show data from PlanPlantWIPDetail

Previous is WIPPreviousValue, get the value from WIPPreviousValue from PlanPlantWIPDetail

WIPPreviousValue in table PlanPlantWIPDetail should be updated when SUBMIT Eblek daily, then data should be stored in db view of Laporan Produksi per Proses. WIPPreviousValue value should be same with the latest WIP that submitted daily (get from db view)

By default WIPCurrentValue == WIPPreviousValue in table PlanPlantWIPDetail

By default WIP1-7 = WIPPreviousValue

	Previous	Senin	Selasa	Rabu	Kamis	Jumat	Sabtu	Minggu
CUTTING	10	10	10	10	10	10	10	10
PACKING	10	10	10	10	10	10	10	10

On WIP grid, show data from PlanPlantTargetProductionKelompok

By default WIPStock = NULL (need to confirm the use with HMS)



By default WIP1-7 = 0

WIP1-7 is used to store the difference (selisih) today WIP with previous WIP value.

Previous of Monday is Saturday WIP, Previous Tuesday is Monday WIP

Perubahan Selisih (DIF) WIP

	Previous	Senin	Selasa	Rabu	Kamis	Jumat	Sabtu	Minggu
CUTTING	10	20	10	10	10	10	10	10
PACKING	10	5	10	10	10	10	10	10

DIF CUTTING WIP1 = Senin - Previous = 10

DIF PACKING WIP1 = Senin - Previous = -5

Affected process by WIP1-7 in TPK:

WIP CUTTING = Sum with selisih WIP valuenya ke Total Target System Process Group ROLLING and CUTTING

WIP PACKING = Sum with selisih WIP valuenya ke Total Target System Process Group ROLLING, CUTTING, PACKING

Affected WIP Formula = Historical Capacity Group x Selisih WIP

WIP1 CUTTING = Historical Capacity Group x DIF CUTTING WIP1

WIP1 PACKING = Historical Capacity Group x DIF PACKING WIP1

Target System	Target Manual
x1	y1
x2	y2
x3	y3
x4	y4

Perubahan WIP akan berpengaruh terhadap **TargetSystem** dan **TargetManual**. Jika terjadi perubahan WIP (kalkulasi hanya berdampak pada proses yang tedampak. Nilai default hasil generate SSIS:

Total Target System = $x1 + x2 + x3 + x4$

A = $x1 + x2 + x3 + x4 + \text{WIP 1-7 changes}$

Updates Target System = $x1$ (if WIP updates is in this row) / A x Total Target System

Target Manual should be same with Target System.



SSIS TPK Plant to Eblek Plant:

Submit TPK to create Production Entry (Eblek).

Flow Eblek Plant:

Submit TPK Plant -> Generate row eblek -> Production Entry Verification (ExePlantProductionEntryVerification) -> Production Entry (ExePlantProductionEntry)

Submit Plant TPK to Plant Eblek ke 2 table antara lain:

1. Table: ExePlantProductionEntryVerification
2. Table: ExePlantProductionEntry

Map data PlanPlantTargetProductionKelompok to table ExePlantProductionEntryVerification

ProductionEntryDate	Values == TPKPlantStartProductionDate + 1. Untuk 1 KPS Week, akan memiliki 7 row ProductionEntryDate.
	TPK has TPKPlantStartProductionDate , this is the Start Date/ Start Week of Production. From this Start Week, to get the date of all day in week, Senin, Selasa, Rabu, Kamis, Jumat and Sabtu is TPKPlantStartProductionDate + 1
KPSYear	Get value KPSYear from PlanPlantTargetProductionKelompok
KPSWeek	Get value KPSWeek from PlanPlantTargetProductionKelompok
ProcessGroup	Get all value ProcessGroup from PlanPlantTargetProductionKelompok
GroupCode	Get all value GroupCode from PlanPlantTargetProductionKelompok
	The smallest entity is GroupCode, every GroupCode will create one row in table

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	ExePlantProductionEntryVerification
UnitCode	Get value UnitCode from PlanPlantTargetProductionKelompok
LocationCode	Get value LocationCode from PlanPlantTargetProductionKelompok
BrandCode	Get value BrandCode from PlanPlantTargetProductionKelompok
WorkHours	Each day in week will get the data from PlanPlantTargetProductionKelompok Senin from ProcessWorkHours1, Selasa from ProcessWorkHours3, Rabu from ProcessWorkHours4, etc
TPKValue	Get value of TargetManual1-7. ExePlantProductionEntryVerification will be generated to 7 rows for each week. Each row is for each day. TPKValue for Senin is TargetManual1, TPKValue for Selasa is TargetManual2, TPKValue for Rabu is TargetManual3, TPKValue for Kamis is TargetManual4, TPKValue for Jumat is TargetManual5, TPKValue for Sabtu is TargetManual5, TPKValue for Minggu is TargetManual7.
TotalTargetValue	The total value of TPKValue from Senin until Minggu
TotalActualValue	By default the value is same with TotalTargetValue
TotalCapacityValue	Each day in a week will has specific TotalCapacityValue. Senin is from HistoricalCapacityGroup1, Selasa is from HistoricalCapacityGroup2, Rabu is from HistoricalCapacityGroup3, etc.
VerifySystem	By default value after TPK is Submit and eblek data is generated == FALSE
VerifyManual	By default value after TPK is Submit and eblek data is generated == FALSE
Remark	By default value is NULL. Remark wajib diisi ketika user Verify System Manual == TRUE
CreatedDate	<i>Standard format like another table</i>
CreatedBy	<i>Standard format like another table</i>
UpdatedDate	<i>Standard format like another table</i>
UpdatedBy	<i>Standard format like another table</i>

From one row in ExePlantProductionEntryVerification will be generated to numerous row for each Employee ID

From PlanPlantAllocation and join table to MstPlantEmpJobDataAcv to get list Employee ID that should be populated in Eblek Plant:

Map data ExePlantProductionEntryVerification to table ExePlantProductionEntry

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ProductionEntryDate	Every entity of Employee ID should get value ProductionEntryDate from ExePlantProductionEntryVerification
GroupCode	Get value GroupCode from ExePlantProductionEntryVerification
UnitCode	Get value UnitCode from ExePlantProductionEntryVerification
LocationCode	Get value LocationCode from ExePlantProductionEntryVerification
ProcessGroup	Get value ProcessGroup from ExePlantProductionEntryVerification
BrandCode	Get value BrandCode from ExePlantProductionEntryVerification
EmployeeID	Daftar Employee dari MstPlantEmpJobsDataAcv (sesuai ProcessGroupnya dengan ProcessSettingsCode) dan ExePlantWorkerAbsenteeism. Hanya mengambil daftar EmployeeID yang StartAbsent <= StartWeek dan EndAbsent >= EndWeek
EmployeeNumber	By default each EmployeeID will get the value from MstPlantEmpJobsDataAcv
ProductionEntryCode	Combine Code: LocationCode, BrandCode, UnitCode, GroupCode, KPSYear, KPSWeek, Day of Week(1..7) Example: ID21/FA130192.15/2011/1011/2015/42/3
ProdCapacity	Join table to PlanPlantIndividualCapacityWorkHours, if day is Senin check value in ProcessWorkHours1 then get the value in PlanPlantIndividualCapacityWorkHours Example: ProcessWorkHours1 = 7 then in PlanPlantIndividualCapacityWorkHours get HoursCapacity7
ProdTarget	By default ProdTarget value == ProdCapacity
ProdActual	By default ProdActual value is NULL, when production time is come, this value should be updated by user
StartDateAbsent	By default StartDateAbsent value is NULL. Dari daftar EmployeeID yang ada, user dapat menginputkan absensi dari Eblek
AbsentType	By default AbsentType value is NULL
AbsentRemark	By default AbsentRemarkvalue is NULL
AbsentCodeEblek	By default nilainya NULL, ketika ada user yang mengisi AbsentType di ExePlantWorkerAbsenteeism, EmployeeID tertentu yang absent, maka akan mengambil value SktAbsentCode dari MstPlantAbsentType
AbsentCodePayroll	By default nilainya NULL, ketika ada user yang mengisi AbsentType di ExePlantWorkerAbsenteeism, EmployeeID tertentu yang absent, maka akan



	mengambil value PayrollAbsentCode dari MstPlantAbsentType
ProductionDate	Diambil dari ProductionEntryDate dari ExePlantProductionEntryVerification, dibagi ke 7 hari dari KPS Week yang sama. Biar tanggalnya valid, cek ke MstGenWeek
CurrentApproval	By default adalah UserAD dari table: IDResponsibility dan MstADTemp. Hanya user dengan IDResponsibility tertentu yang bisa akses halaman.
CreatedDate	<i>Standard format like another table</i>
CreatedBy	<i>Standard format like another table</i>
UpdatedDate	<i>Standard format like another table</i>
UpdatedBy	<i>Standard format like another table</i>

Note:

1. Pop up JK proses: semua proses yang ada pada location tersebut (ambil dari ProcessSettingLocation)
2. JK Proses value: ambil dari MstGenStandardHours untuk setiap harinya.
3. Pop up WIP: ambil dari process yang WIP value == TRUE, dan ada pada location dan brand tersebut.
4. Perubahan pada WIP:
 - a. Jika yang diubah proses pack proses yang terdampak pack-gunting-giling
 - b. Jika yang diubah proses gunting proses yang terdampak gunting-giling
 - c. Jika yang diubah proses kemas proses yang terdampak kemas-gunting-giling

Jika History data Group tidak ada, maka PercentAttendance dibuat menjadi 90% dan nilai lainnya dengan nilai default untuk process tersebut dalam sebuah brand. Untuk data setiap harinya, akan check holiday date untuk melakukan generate data. Jika libur maka Target dan WorkHours == 0.

Target Manual value from Target Production Unit (TPU), dibagi ke jumlah kelompok di dalam Unit tersebut.

3.1.4 Group Shift Assignment

Description: Group Shift is used for Location with Shift 2. User will map Group in its Unit to Shift 1 or Shift 2.

User Interface: Excel-like in Internet Explorer v.11

Filter Field:

1. Location:
 - a. Type: Filter Field, nested with filter Brand Group
 - b. Source: Table MstGenProcessSettings and MstGenProcessSettingsLocation
 - c. Field Type: Combobox
2. Unit
 - a. Type: Filter Field



- b. Source: Table MstPlantUnit
- c. Field Type: Combobox
- 3. Unit
 - a. Type: Filter Field
 - b. Source: Table MstPlantUnit
 - c. Field Type: Combobox
- 4. KPS Year:
 - a. Type: Filter Field
 - b. Source: Table MstGenWeek, by default show current year
 - c. Field Type: Combobox
- 5. KPS Week:
 - a. Type: Filter Field
 - b. Source: Table MstGenWeek, by default show current week
 - c. Field Type: Combobox

Action Button:

- a. View: Preview the filtered data from table
- b. Save: Save data to table
- c. Excel: Export data to determined format excel file

Export File Format:

The file of export result is determined with Excel *.xls format and contains Feature Name, Filter Fields, Filter Options, and Data Table.

Exported file name: ProductionPlanning_GroupShiftAssignment_<current date>.xlsx

Responsibility: SKT Plant Production Coordinator

Duration: Weekly basis every Friday at the latest on previous week, and could change if any on current week

Table: PlanPlantGroupShift

Field Name	PK	FK	Unique	Mandatory	Auto	Reference Table
GroupCode	Yes	Yes	No	Yes	No	MstPlantProductionGroup
ProcessGroup	Yes	Yes	No	Yes	No	MstPlantProductionGroup
UnitCode	Yes	Yes	No	Yes	No	MstPlantProductionGroup
LocationCode	Yes	Yes	No	Yes	No	MstPlantProductionGroup
StartDate	Yes	No	No	Yes	No	-
EndDate	No	No	No	Yes	No	-
Shift	No	No	No	Yes	No	-
CreatedDate	No	No	No	Yes	Yes	-
CreatedBy	No	No	No	Yes	Yes	-
UpdatedDate	No	No	No	Yes	Yes	-
UpdatedBy	No	No	No	Yes	Yes	-



3.1.5 Individual Capacity All Work Hours

Description: Individual Capacity of each worker in defined work hours. The capacity will review by group leader every 2 weeks, or when there are special case which impact to the capacity.

User Interface: Excel-like in Internet Explorer v.11

Other User Interface Affected: Plant Production Entry (Eblek)

Filter Field:

1. Location:
 - a. Type: Filter Field
 - b. Source: Table MstGenLocation
 - c. Field Type: Combobox
2. Unit:
 - a. Type: Filter Field, nested with filter Location
 - b. Source: Table MstPlantUnit
 - c. Field Type: Combobox
3. Brand Group:
 - a. Type: Filter Field, nested with filter Location
 - b. Source: Distinct from table MstGenProcessSettings and MstGenProcessSettingsLocation
 - c. Field Type: Text Field
4. Process:
 - a. Type: Filter Field, nested with filter Location
 - b. Source: Table MstGenProcessSettings and MstGenProcessSettingsLocation
 - c. Field Type: Combobox
5. Group:
 - a. Type: Filter Field, nested with filter Process
 - b. Source: Table MstPlantProductionUnit
 - c. Field Type: Combobox
6. Capacity of Process:
 - a. Type: Filter Field, nested with filter Location
 - b. Source: Table MstGenProcessSettings and MstGenProcessSettingsLocation
 - c. Field Type: Combobox
7. KPS Year:
 - a. Type: Label
 - b. Source: Table MstGenWeek, by default show current year

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- c. Field Type: Combobox
- 8. KPS Week:
 - a. Type: Filter Field
 - b. Source: Table MstGenWeek, by default show next week
 - c. Field Type: Combobox
- 9. Date:
 - a. Type: Filter Field
 - b. Field Type: Datepicker
- 10. Latest Updated:
 - a. This text is to show the latest taken date to update data (UpdatedDate)
 - b. Type: Label

Action Button:

1. View: Preview the filtered data from table
2. Save: Save data to table
3. Excel: Export data to determined format excel file

Export File Format:

The Individual Capacity All Work Hours file of export result is determined with Excel *.xls format and contains Feature Name, Filter Fields, Filter Options, and Data Table.

Exported file name: ProductionPlanning_IndividualCapacityAllWorkHours_<current date>.xlsx

Responsibility: SKT Plant Production Coordinator

Duration: Weekly basis every Friday at the latest on previous week, and could change if any on current week

Table: PlanPlantIndividualCapacityWorkHours

Field Name	PK	FK	Unique	Mandatory	Auto	Reference Table
BrandGroupCode	Yes	Yes	No	Yes	No	MstGenBrandGroup
EmployeeID	Yes	Yes	No	Yes	No	MstPlantEmpJobsDataAcv
GroupCode	Yes	Yes	No	Yes	No	MstPlantProductionGroup
UnitCode	Yes	Yes	No	Yes	No	MstPlantProductionGroup
LocationCode	Yes	Yes	No	Yes	No	MstPlantProductionGroup
ProcessGroup	Yes	Yes	No	Yes	No	MstPlantProductionGroup
3HoursCapacity	No	No	No	No	No	-
5HoursCapacity	No	No	No	No	No	-
6HoursCapacity	No	No	No	No	No	-
7HoursCapacity	No	No	No	No	No	-
8HoursCapacity	No	No	No	No	No	-
9HoursCapacity	No	No	No	No	No	-



10HoursCapacity	No	No	No	No	No	-
CreatedDate	No	No	No	Yes	Yes	-
CreatedBy	No	No	No	Yes	Yes	-
UpdatedDate	No	No	No	Yes	Yes	-
UpdatedBy	No	No	No	Yes	Yes	-
UpdatedBy	No	No	No	Yes	Yes	-

Fields:

1. BrandCode:
 - a. This field will entry with Brand Code
 - b. This field list is populated from table MstGenBrand
 - c. Field Type: Mandatory and Uneditable
 - d. Data Type: VARCHAR
 - e. Char length: 11
2. BrandGroupCode:
 - a. This field will entry with Brand Group Code
 - b. This field list is populated from table MstGenBrandGroup
 - c. Field Type: Mandatory and Uneditable
 - d. Data Type: VARCHAR
 - e. Char length: 20
3. LocationCode:
 - a. This field will entry with Brand Group Code
 - b. This field list is nested from chosen Brand Group Filter in UI
 - c. Field Type: Mandatory and Uneditable
 - d. Data Type: VARCHAR
 - e. Char length: 8
4. Shift:
 - a. Name in UI: Shift
 - b. Function in UI: Filter Input
 - c. This field will entry with Production Shift The value is taken from selected Location
 - d. This field can be setup in Master General Location and Group Shift
 - e. This production shift will applied to new plant
 - f. Field Type: Mandatory and Uneditable
 - g. Data Type: INTEGER
 - h. Char length: -
5. UnitCode:



- a. This field list is auto-generated from MstPlantUnit, nested with selected Location
 - b. Field Type: Mandatory and Uneditable
 - c. Data Type: VARCHAR
 - d. Char length: 4
6. EmployeeID
- a. Field Type: Mandatory and Uneditable
 - b. Data Type: VARCHAR
 - c. Char length: 64
7. GroupCode
- a. Field Type: Mandatory and Uneditable
 - b. Data Type: VARCHAR
 - c. Char length: 4
8. ProcessGroup
- a. Field Type: Mandatory and Uneditable
 - b. Data Type: VARCHAR
 - c. Char length: 16
9. HoursCapacity3
- a. This field will entry with 3 hours production capacity information
 - b. This field list is populated historical data from Eblek
 - c. Field Type: Mandatory and Editable
 - d. Data Type: INTEGER
 - e. Char length: -
10. HoursCapacity5
- a. This field will entry with 5 hours production capacity information
 - b. This field list is populated historical data from Eblek
 - c. Field Type: Mandatory and Editable
 - d. Data Type: INTEGER
 - e. Char length: -
11. HoursCapacity6
- a. This field will entry with 6 hours production capacity information
 - b. This field list is populated historical data from Eblek
 - c. Field Type: Mandatory and Editable
 - d. Data Type: INTEGER
 - e. Char length: -



12. HoursCapacity7

- a. This field will entry with 7 hours production capacity information
- b. This field list is populated historical data from Eblek
- c. Field Type: Mandatory and Editable
- d. Data Type: INTEGER
- e. Char length: -

13. HoursCapacity8

- a. This field will entry with 8 hours production capacity information
- b. This field list is populated historical data from Eblek
- c. Field Type: Mandatory and Editable
- d. Data Type: INTEGER
- e. Char length: -

14. HoursCapacity9

- a. This field will entry with 9 hours production capacity information
- b. This field list is populated historical data from Eblek
- c. Field Type: Mandatory and Editable
- d. Data Type: INTEGER
- e. Char length: -

15. HoursCapacity10

- a. This field will entry with 10 hours production capacity information
- b. This field list is populated historical data from Eblek
- c. Field Type: Mandatory and Editable
- d. Data Type: INTEGER
- e. Char length: -

16. CreatedDate:

- a. This field will be generated if the row is inserted
- b. Automatically generated by system, use Server Date and Time as reference
- c. Field Type: Mandatory and Uneditable
- d. Data Type: DATETIME
- e. Char length: -

17. CreatedBy:

- a. This field will be generated automatically by the system with entries employee ID of windows logon information (User Responsibility)
- b. Automatically updated

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- c. Field Type: Mandatory and Uneditable
- d. Data Type: VARCHAR
- e. Char length: 64 character

18. UpdatedDate:

- a. This field will be updated if the row is inserted, changed and saved
- b. Automatically updated by system, use Server Date and Time as reference
- c. Field Type: Mandatory and Editable by System
- d. Data Type: DATETIME
- e. Char length: -

19. UpdatedBy:

- a. This field will be updated automatically by the system with entries employee ID of windows logon information (User Responsibility)
- b. Automatically updated
- c. Field Type: Mandatory and Editable by System
- d. Data Type: DATETIME
- e. Char length: -

3.1.6 Individual Capacity by References

Description: Individual Capacity of each worker in defined references. The capacity will review by group leader every 3 weeks, or when there are special case which impact to the capacity. Historical data is taken from Plant Production Entry (Eblek).

User Interface: Excel-like in Internet Explorer v.11

The screenshot shows a web-based application interface for managing employee capacity. At the top, there's a navigation bar with links to Homepage, Production Planning, Plant, and Individual Capacity. On the right side, there's a user profile for 'Paulus Herlukiyanto' with options to edit ('ID') and refresh ('refresh'). Below the navigation, there are two tabs: 'All Work Hours' (selected) and 'By Reference'. The main area contains several dropdown menus for filtering data: Location (ID21), Unit (1001), Brand Group (DSS125R-20), Process (GILING), Group (1143), and Capacity of Process (GILING). To the right of these filters are fields for Year (2015), Week (42), Date (15/10/2015), and Last Updated. At the bottom left, there are buttons for 'View (id)', 'Save (id)', and 'Excel (id)'. A 'Show (id)' dropdown is set to 10. The bottom section displays a table titled 'Employee' with columns for ID, Number, Name, Capacity (hours), User Updates, and Updated Date. The table currently shows 'No data found (id)'.

Employee Info from PeopleSoft®

Filter Field:



1. Location:
 - a. Type: Filter Field
 - b. Source: Table MstGenLocation
 - c. Field Type: Combobox
2. Unit:
 - a. Type: Filter Field, nested with filter Location
 - b. Source: Table MstPlantUnit
 - c. Field Type: Combobox
3. Brand Group:
 - a. Type: Filter Field, nested with filter Location
 - b. Source: Distinct from table MstGenProcessSettings and MstGenProcessSettingsLocation
 - c. Field Type: Text Field
4. Process:
 - a. Type: Filter Field, nested with filter Location
 - b. Source: Table MstGenProcessSettings and MstGenProcessSettingsLocation
 - c. Field Type: Combobox
5. Group:
 - a. Type: Filter Field, nested with filter Process
 - b. Source: Table MstPlantProductionUnit
 - c. Field Type: Combobox
6. KPS Year:
 - a. Type: Label
 - b. Source: Table MstGenWeek, by default show current year
 - c. Field Type: Combobox
7. KPS Week:
 - a. Type: Filter Field
 - b. Source: Table MstGenWeek, by default show next week
 - c. Field Type: Combobox
8. Date:
 - a. Type: Filter Field
 - b. Field Type: Datepicker

Action Button:

- a. View: Preview the filtered data from table
- b. Save: Save data to table



- c. Excel: Export data to determined format excel file

Export File Format:

The Individual Capacity by References file of export result is determined with Excel *.xls format and contains Feature Name, Filter Fields, Filter Options, and Data Table.

Exported file name: ProductionPlanning_IndividualCapacityByReferences_<current date>.xlsx

Responsibility: SKT Plant Production Coordinator

Duration: Weekly basis every Friday at the latest on previous week, and could change if any on current week

Table: No specific table for this features, since data is taken from Production Entry and ProductionEntry Verification.

3.2 How the development will work (FO)

Where this development will be run:

Geographically:

- Global Development, will be run in all affiliates
 Local Development, will be run in the following affiliate(s): Indonesia

Environments:

- SKTIS

How the development will be run:

Development will be run in the following ways:

- In background - scheduled at regular intervals/time: Daily
 In background - Triggered by a certain event: (please specify the event)
 Other: (e.g. this transaction is to be run in the development environment only)

Comments – specific variations:

IS will create script and run it to update all transactional/historical data with new employee ID.

Security:

How should access to run the development be restricted:

- No specific restrictions
 Restrictions based on Roles and Permission Lists
 Restrictions based on certain criteria
 Other:

Comments:

-



3.3 Assumptions/Dependencies/Constraints (FO + TO)

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4 Development Design (FO + TO)

4.1 Step 1

4.2 Step 2

4.3 Step 3

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5 Functional Unit Test (FO)

The detailed Functional Tests Description (Positive Test, Negative Test, and Selective Regression Test (optional) are described in the following documents:

1. SKTIS – Testing Session Planning Weekly Production Planning (WPP)
2. SKTIS – Testing Session Planning Group Shift
3. SKTIS – Testing Session Planning Individual Capacity
4. SKTIS – Testing Session Planning Target Production Unit (TPU)
5. SKTIS – Testing Session Planning Target Production Group (TPK)
6. SKTIS – Testing Session Planning Report

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6 Reference Documentation (FO)

The following are reference documentation:

1. SKTIS – Term of Reference v.1.1.1
2. SKTIS – User Guide PP Module v.1.0.0
3. SKTIS Functional Specs – Planning Group Shift
4. SKTIS Functional Specs – Planning Individual Capacity All Work Hours
5. SKTIS Functional Specs – Planning Individual Capacity By Reference
6. SKTIS Functional Specs – Planning Target Production Kelompok Plant
7. SKTIS Functional Specs – Planning Target Production Kelompok TPO
8. SKTIS Functional Specs – Planning Target Production Unit – Unit Work Hours
9. SKTIS Functional Specs – Planning Target Production Unit
10. SKTIS Functional Specs – Planning Weekly Production Planning

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