Revision History:

Name	Change Date	Version	Description of Changes
Tafseer Ahmed	25 Oct, 2004	4.1.0.1	Created
Tafseer Ahmed	4th Nov, 2004	4.1.0.2	F-Description are added to cover various types of VerbalP.

Rule ID: UGR109

Rule Syntax: Following is the constituent description of the rule.
VerbalP -> ComplexP (TenseAuxP).

VerbalP -> ComplexP asp_aux (TenseAuxP)

VerbalP -> ComplexP TenseAuxP

VerbalP -> ComplexP

Rule Functional Description: Following are the functional specifications of the rule.
VerbalP -> ComplexP:^ = !, ~[! _MORPH_FORM =c PERFECTIVE], ^ VTYPE = Usual,! _SUBJ_CASE =c NOM, ^ _MORPH FORM = ! _MORPH_FORM; (TenseAuxP:^ TNS_ASP = ! TNS_ASP,^ _MORPH FORM = ! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;).

VerbalP -> ComplexP:^ = !, ~[! _MORPH_FORM =c PERFECTIVE], ^ VTYPE = ERG,! _SUBJ_CASE =c ERG, ^ _MORPH FORM = ! _MORPH_FORM; (TenseAuxP:^ TNS_ASP = ! TNS_ASP, ^ _MORPH FORM = ! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;).

VerbalP -> ComplexP:^ = !, ^ VTYPE = Usual,! _SUBJ_CASE =c NOM; asp_aux:^ TNS_ASP = ! TNS_ASP,^ _MORPH_FORM =c ! _ALLOWED_FORM, ^ _MORPH FORM = ! _MORPH_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND; (TenseAuxP:^ TNS_ASP = ! TNS_ASP, ^ _MORPH FORM = ! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;).

VerbalP -> ComplexP:^ = !, ^ VTYPE = ERG,! PERF_CONTROL = c POS; asp_aux:^ TNS_ASP = ! TNS_ASP,^ _MORPH_FORM =c ! _ALLOWED_FORM, ^ _MORPH FORM = ! _MORPH_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND; (TenseAuxP:^ TNS_ASP = ! TNS_ASP, ^ _MORPH FORM = ! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;).

VerbalP -> ComplexP:^ = !, ~[! _MORPH_FORM =c PERFECTIVE], ^ VType = DAT,! _SUBJ_CASE =c DAT, ^ _MORPH FORM = ! _MORPH_FORM; (TenseAuxP:^ TNS_ASP = ! TNS_ASP,^ _MORPH FORM = ! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;).

VerbalP -> ComplexP:^ = !, ^ VType = DAT,! _SUBJ_CASE =c DAT; asp_aux:^ TNS_ASP = ! TNS_ASP,^ _MORPH_FORM =c ! _ALLOWED_FORM, ^ _MORPH FORM = ! _MORPH_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND; (TenseAuxP:^ TNS_ASP = ! TNS_ASP, ^ _MORPH FORM =

! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;).

VerbalP -> ComplexP:^ = !, ! _MORPH_FORM =c PERFECTIVE, ^ VTYPE = Usual,! _SUBJ_CASE =c NOM, ^ _MORPH FORM = ! _MORPH_FORM; TenseAuxP:^ TNS_ASP TENSE = PAST, ^ TNS_ASP FAR_TYPE = ! FAR_TYPE, ^ _MORPH FORM = ! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;.

VerbalP -> ComplexP:^ = !, ! _MORPH_FORM =c PERFECTIVE, ^ VTYPE = Usual,! _SUBJ_CASE =c NOM, ^ _MORPH FORM = ! _MORPH_FORM; TenseAuxP:! TNS_ASP TENSE =c FUTURE, ^ TNS_ASP = ! TNS_ASP,^ _MORPH FORM = ! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;.

VerbalP -> ComplexP:^ = !, ! _MORPH_FORM =c PERFECTIVE, ^ VTYPE = Usual,! _SUBJ_CASE =c NOM, ^ _MORPH FORM = ! _MORPH_FORM,^ TNS_ASP TENSE = PAST, ^ TNS_ASP FAR_TYPE = NEUTRAL;.

VerbalP -> ComplexP:^ = !, ! _MORPH_FORM =c PERFECTIVE, ^ VTYPE = ERG,! _SUBJ_CASE =c ERG, ^ _MORPH FORM = ! _MORPH_FORM; TenseAuxP:^ TNS_ASP TENSE = PAST, ^ TNS_ASP FAR_TYPE = ! FAR_TYPE, ^ _MORPH FORM = ! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;.

VerbalP -> ComplexP:^ = !, ! _MORPH_FORM =c PERFECTIVE, ^ VTYPE = ERG,! _SUBJ_CASE =c ERG, ^ _MORPH FORM = ! _MORPH_FORM; TenseAuxP:! TNS_ASP TENSE =c FUTURE, ^ TNS_ASP = ! TNS_ASP, ^ _MORPH FORM = ! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;.

VerbalP -> ComplexP:^ = !, ! _MORPH_FORM =c PERFECTIVE, ^ VTYPE = ERG,! _SUBJ_CASE =c ERG, ^ _MORPH FORM = ! _MORPH_FORM,^ TNS_ASP TENSE = PAST, ^ TNS_ASP FAR_TYPE = NEUTRAL;.

VerbalP -> ComplexP:^ = !, ! _MORPH_FORM =c PERFECTIVE, ^ VType = DAT,! _SUBJ_CASE =c DAT, ^ _MORPH FORM = ! _MORPH_FORM; TenseAuxP:^ TNS_ASP TENSE = PAST, ^ TNS_ASP FAR_TYPE = ! FAR_TYPE,^ _MORPH FORM = ! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;.

VerbalP -> ComplexP:^ = !, ! _MORPH_FORM =c PERFECTIVE, ^ VType = DAT,! _SUBJ_CASE =c DAT, ^ _MORPH FORM = ! _MORPH_FORM; TenseAuxP:! TNS_ASP TENSE =c FUTURE, ^ TNS_ASP = ! TNS_ASP, ^ _MORPH FORM = ! _MORPH ALLOWED_FORM, ^ NUM = ! NUM, ^ RESPECT = ! RESPECT, ^ PERS = ! PERS, ^ GEND = ! GEND;.

VerbalP -> ComplexP:^ = !, ! _MORPH_FORM =c PERFECTIVE, ^ VType = DAT,! _SUBJ_CASE =c DAT, ^ _MORPH FORM = ! _MORPH_FORM,^ TNS_ASP TENSE = PAST, ^ TNS_ASP FAR_TYPE = NEUTRAL;.

Frequency: 1

Description: This rule shows main rule for verb phrase.

c-structure: Verb phrase consists of a complex predicate phrase followed by optional aspectual auxiliaries and tense auxiliary phrase.

f-structure: Complex predicate phrase, auxiliary and tense auxiliary have agreement on the basis of number, gender, person and morphological form of verb.

Examples:

وہ [پڑھتا ہے]۔
وہ [پڑھتا ہو گا]۔
وہ [پڑھے گا]۔
وہ [پڑھ رہا ہے]۔
اس نے [پڑھا]۔

Rule Status: Under Process

Reference:
[1] UGR103
[2] Miriam Butt, Discussion at EGD_ULP meetings

Related Rules: UGR116, UGR024

Related POS: UPOS104

Replaces: - UGR020

Reason: - UGR020 was a general rule for all types of VP.

Replaced by: -

Analysis: Following is the analysis of the rule.

Analysis: The Usual Verb Phrase consists of Complex Predicate, Optional Auxiliary Phrase and Tense Auxiliary Phrase. In syntax of commonly used Urdu, only one aspectual auxiliary is used after Complex Predicate. Morphological form of each node depends on form of the next node. For example, 'ہوگا' 'تھا', 'ہے', allow PERFECTIVE or HABITUAL form. 'گا' allows SUBJUNCTIVE form before it. The Complex Predicate provides the Sub-Categorization frame for the phrase. The case of subject is provided by last main or light verb of the phrase.

Result: We decided on above analysis.

Future Work: Verbal Phrase should deal all possible combinations of Aspectual auxiliaries so the sentences like 'پرندے اڑتے چلے جا رہے ہوتے ہوں گے' should be parsed successfully.