Here is some psuedo-code for the 4 over-ride cases …   (Nomenclature follows DS01)

OverRide #1

U+1822

I ←First Medial Form

If (Medial_Vowel+I+Mongolian_Letter)

        then I ← Fourth Medial Form

        If (I+FVS2)   /*This is OverRide #1 over-riding normal grammatical rulings

                – special case of NAIMA*/

            then I ← Third Medial Form

Jirimutu sugesstion:

I ←First Medial Form

If (Initial_Vowel(A, E, O, U,EE) + I + Mongolian_Letter)

        (after Initial_Vowel A, E, O, U, the I is use two long teath medial form)

        then I ← forth Medial Form

else If (Medial_Vowel(except first syllable I, OE, UE)+I+Mongolian_Letter)

        (after first vowel Medial_Vowel I, OE, UE, the I is use one long teath medial form, we need to exclude them from thiscondition)

        then I ← Fourth Medial Form

If (I+FVS1)

        (override if the Medial form is designated to the one form by FVS1-2)

        I ← Second Medial Form

else If (I+FVS2)   /*This is OverRide #1 over-riding normal grammatical rulings

                – special case of NAIMA*/

        then I ← Third Medial Form

If (I+FVS3)

        then I ← Fourth Medial Form

OverRide #2

U+1828

N ←First Medial Form

If (Medial_Vowel+I+Mongolian_Vowel)

       then N ← Second Medial Form

      If (N+FVS2)   /*This is OverRide #2 over-riding normal grammatical rulings

                                    special case of compound names*/

       then N ← Third Medial Form

Jirimutu suggestion

N ←First Medial Form

If (**Mongolian Letter** + N + Mongolian_Vowel **+ is not FVS1-3)**   **=> exclude the vowel with FVS1-3**

       (**Mongolian Letter = Initial_Vowel or** Medial_Vowel **or consonant)**

       then N ← Second Medial Form

If (N+FVS1)   /*This is OverRide #2 over-riding normal grammatical rulings

                           special case of compound names*/

       then N ← Second Medial Form

If (N+FVS2)   /*This is OverRide #2 over-riding normal grammatical rulings

                           special case of compound names*/

       then N ← Third Medial Form   *(Maybe we need this mapping here ?)*

If (N+FVS3)   /*This is OverRide #2 over-riding normal grammatical rulings

                           special case of compound names*/

       then N ← Fourth Medial Form

OverRide #3

182D Medial G

G ←First Medial Form

If (Consonant preceding G is not D/S) AND (Vowel following G is 1820/1823/1824/1888)

        then G ← Second Medial Form

        If (G+FVS2)   /*This is OverRide #3 over-riding normal grammatical rulings */

            then G ← Third Medial Form

Jirimutu Suggestion：

G ←First Medial Form

If (Consonant preceding G is not D/S) AND (Vowel following G is 1820/1823/1824/1888*(1887)*)

        then G ← Second Medial Form

If ((Xn-1.. 1, Xn+1..l = 1821Initial or Medial or final or a Ligature containing 1821)   **=> nearest one is prior**

OR

 (Xn-1.. 1, Xn+1..l = 1825Initial or Medial or final or a Ligature containing 1825)

OR

(Xn-1.. 1, Xn+1..l = 1826Initial or Medial or final or a Ligature containing 1826))

        Then G ← Third Medial Form

If ((Xn-1..1, Xn+1..l = 1822Initial or Medial or final or a Ligature containing 1822) **=> nearest one is prior**

OR

(Xn-1..1, Xn+1..l = 1827Initial or Medial or final or a Ligature containing 1827))

AND ((Xn-1..1, Xn+1..l   is not 1820 Initial or Medial or final)

AND (Xn-1..1, Xn+1..l   is not 1823 Initial or Medial or final)

AND (Xn-1..1, Xn+1..l   is not 1824 Initial or Medial or final))

        Then G ← Third Medial Form

If (G+FVS1)   /*This is OverRide #3 over-riding normal grammatical rulings */

        then G ← Third Medial Form

If (G+FVS2)   /*This is OverRide #3 over-riding normal grammatical rulings */

If (G+FVS3)   /*This is OverRide #3 over-riding normal grammatical rulings */

then G ← FourthMedial Form

OverRide #4

182D Final G

/* Only considers case Xn +G+(Nothing OR WhiteSpace(MVS and NNBSP are not white-space)) where n

<= 20 (n is set somewhat arbitrarily)*/

G ←First Final Form

If ((X1..n-1 = 1821Initial or Medial or a Ligature containing 1821)

OR

(X1..n-1 = 1822Initial or Medial or a Ligature containing 1822)

OR

(X1..n-1 = 1825Initial or Medial or a Ligature containing 1825)

OR

(X1..n-1 = 1826Initial or Medial or a Ligature containing 1826)

OR

(X1..n-1 = 1827Initial or Medial or a Ligature containing 1827))

then G ← Third Final Form

If (I+FVS1)   /*This is OverRide #4 over-riding normal grammatical rulings for special small subset

of feminine words using a masculine Final G */

then G ← Second Final Form

then G ← Third Final Form

If ((Xn-1..1 = 1822Initial or Medial or a Ligature containing 1822) => **nearest one is prior**

OR

(Xn-1..1 = 1827Initial or Medial or a Ligature containing 1827))

AND ((Xn-1..1 is not 1820 Initial or Medial)

AND (Xn-1..1 is not 1823 Initial or Medial)

AND (Xn-1..1 is not 1824 Initial or Medial))

then G ← Third Final Form

If (I+FVS1)   /*This is OverRide #4 over-riding normal grammatical rulings for special small subset of feminine words using a masculine Final G */

then G ← Second Final Form

If (I+FVS2)   /*This is OverRide #4 over-riding normal grammatical rulings for special small subset of feminine words using a masculine Final G */

then G ← Second Final Form

If (I+FVS3)   /*This is OverRide #4 over-riding normal grammatical rulings for special small subset of feminine words using a masculine Final G */

then G ← Second Final Form   (do we need this)