Data sheet

In this small EU, we have four registers and for forbidden input command is 00 for the most two bits from the left but if the user entered 00 then it will operate as MOV instruction but it can't MOV value to reg but it will move reg to reg. where the 4

Reg2
Reg1
Reg0

The input command will be 9 bits and they are arranged from left to right as follows:

- first two is for operation selection: (01: move), (10: ADD), (11: AND)

Decoding circuit

- third & fourth are for Destination register selected: (00: reg0), (01: reg1), (10: reg2), (11: reg 3)
- fifth to choose whether operating on a register or a value: (0:reg), (1:value)
- from sixth -> eighth to enter the value of number or which register where if fifth bit was 1 then the 4 bits will represent the value user wants to operate whereas if fifth bit was 0 then the last two bits will represent which register to be the source, the following text will resembles this function.

ALU

