The group G is isomorphic to the group labelled by [20, 3] in the Small Groups library.
Ordinary character table of $G \cong$ C5 : C4:

	$1a$	$5a$	$4a$	$2a$	$4b$
χ_1	1	1	1	1	1
χ_2	1	1	$E(4)$	-1	$-E(4)$
χ_3	1	1	-1	1	-1
χ_4	1	1	$-E(4)$	-1	$E(4)$
χ_5	4	-1	0	0	0

Trivial source character table of $G \cong$ C5 : C4 at $p = 5$:

Normalisers N_i	N_1				N_2			
p-subgroups of G up to conjugacy in G	P_1				P_2			
Representatives $n_j \in N_i$	$1a$	$4a$	$2a$	$4b$	$1a$	$4a$	$2a$	$4b$
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5$	5	1	1	1	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5$	5	$E(4)$	-1	$-E(4)$	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5$	5	-1	1	-1	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5$	5	$-E(4)$	-1	$E(4)$	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5$	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5$	1	-1	1	-1	1	-1	1	-1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5$	1	$E(4)$	-1	$-E(4)$	1	$E(4)$	-1	$-E(4)$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5$	1	$-E(4)$	-1	$E(4)$	1	$-E(4)$	-1	$E(4)$

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,4,8,12,16)(2,6,10,14,18)(3,7,11,15,19)(5,9,13,17,20)]) \cong$ C5

$N_1 = Group([(1,2,3,5)(4,10,19,17)(6,11,20,12)(7,13,16,14)(8,18,15,9),(1,3)(2,5)(4,19)(6,20)(7,16)(8,15)(9,18)(10,17)(11,12)(13,14),(1,4,8,12,16)(2,6,10,14,18)(3,7,11,15,19)(5,9,13,17,20)]) \cong$ C5 : C4
$N_2 = Group([(1,4,8,12,16)(2,6,10,14,18)(3,7,11,15,19)(5,9,13,17,20),(1,2,3,5)(4,10,19,17)(6,11,20,12)(7,13,16,14)(8,18,15,9)]) \cong$ C5 : C4