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# 9<sup>th</sup> Environmental and Social Quarterly Progress Report (April 2025 – June 2025)

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## Sindh Flood Emergency Housing Reconstruction Project World Bank

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July 2025

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#### A. SPHF Environment, Social, Gender, and Monitoring Team.

| S. No. | Name                   | Designation                      |
|--------|------------------------|----------------------------------|
| 1.     | Syed Jalal Abbas Jafri | Environmental Specialist         |
| 2.     | Shama Shaikh           | Social Development Specialist    |
| 3.     | Versha Qazi            | Gender Specialist                |
| 4.     | Shahid Panhwar         | Manager, Monitoring & Evaluation |

#### B. Details of the Village Reconstruction Committee.

| Table B-1: Village Reconstruction Committees |            |                   |                                     |               |        |       |                                                    |               |        |        |
|----------------------------------------------|------------|-------------------|-------------------------------------|---------------|--------|-------|----------------------------------------------------|---------------|--------|--------|
| S. No.                                       | Name of IP | Name of Districts | Progress June-2025                  |               |        |       | TOTAL                                              |               |        |        |
|                                              |            |                   | No. of VRCs Formed during June 2025 | Members Added |        |       | No. of VRCs Formed till 30 <sup>th</sup> June 2025 | Members Added |        |        |
|                                              |            |                   |                                     | Male          | Female | Total |                                                    | Male          | Female | Total  |
| 1                                            | HANDS      | Thatta            | 100                                 | 700           | 400    | 1,100 | 1,137                                              | 11,354        | 9,114  | 20,468 |
| 2                                            |            | Sukkur            | 34                                  | 238           | 136    | 374   | 1,087                                              | 9,346         | 4,118  | 13,464 |
| 3                                            |            | Umerkot           | 25                                  | 175           | 100    | 275   | 1,988                                              | 9,833         | 3,962  | 13,795 |
| 4                                            |            | Hyderabad         | 30                                  | 210           | 120    | 330   | 595                                                | 5,623         | 2,481  | 8,104  |
| 5                                            |            | Ghotki            | 52                                  | 364           | 208    | 572   | 3,013                                              | 12,815        | 6,793  | 19,608 |
| 6                                            |            | Malir             | 0                                   | 0             | 0      | 0     | 14                                                 | 129           | 25     | 154    |
| 7                                            |            | Kashmore          | 27                                  | 189           | 108    | 297   | 1,139                                              | 6,271         | 1,776  | 8,047  |
| Total HANDS                                  |            | 7                 | 268                                 | 1,876         | 1,072  | 2,948 | 8,973                                              | 55,371        | 28,269 | 83,640 |
| 8                                            | NRSP       | Badin             | 11                                  | 33            | 22     | 55    | 1,494                                              | 4,880         | 3,295  | 8,175  |
| 9                                            |            | Matiari           | 37                                  | 114           | 73     | 187   | 734                                                | 2,358         | 1,544  | 3,902  |
| 10                                           |            | Mirpurkhas        | 57                                  | 215           | 101    | 316   | 1,153                                              | 3,448         | 2,753  | 6,201  |
| 11                                           |            | Sanghar           | 10                                  | 30            | 20     | 50    | 1,569                                              | 4,607         | 3,137  | 7,744  |
| 12                                           |            | Sujawal           | 114                                 | 380           | 260    | 640   | 2,024                                              | 6,929         | 4,530  | 11,459 |
| 13                                           |            | T.M Khan          | 47                                  | 141           | 94     | 235   | 588                                                | 1,376         | 1,182  | 2,558  |
| 14                                           |            | Tando Allahyar    | 30                                  | 99            | 55     | 154   | 596                                                | 1,724         | 1,018  | 2,742  |
| Total NRSP                                   |            | 7                 | 306                                 | 1,012         | 625    | 1,637 | 8,158                                              | 25,322        | 17,459 | 42,781 |
| 15                                           | SRSO       | Kamber            | 0                                   | 0             | 0      | 0     | 2,171                                              | 4,046         | 7,192  | 11,238 |
| 16                                           |            | Larkano           | 0                                   | 0             | 0      | 0     | 1,525                                              | 2,686         | 4,008  | 6,694  |
| 17                                           |            | Khairpur          | 0                                   | 0             | 0      | 0     | 4,402                                              | 6,400         | 9,639  | 16,039 |

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| Table B-1: Village Reconstruction Committees |            |                     |                                     |               |        |        |                                                    |               |         |         |
|----------------------------------------------|------------|---------------------|-------------------------------------|---------------|--------|--------|----------------------------------------------------|---------------|---------|---------|
| S. No.                                       | Name of IP | Name of Districts   | Progress June-2025                  |               |        |        | TOTAL                                              |               |         |         |
|                                              |            |                     | No. of VRCs Formed during June 2025 | Members Added |        |        | No. of VRCs Formed till 30 <sup>th</sup> June 2025 | Members Added |         |         |
|                                              |            |                     |                                     | Male          | Female | Total  |                                                    | Male          | Female  | Total   |
| 18                                           |            | Shikarpur           | 0                                   | 0             | 0      | 0      | 2,223                                              | 5,235         | 6,698   | 11,933  |
| 19                                           |            | Jacobabad           | 17                                  | 34            | 56     | 90     | 2,846                                              | 7,463         | 6,350   | 13,813  |
| Total SRSO                                   |            | 5                   | 17                                  | 34            | 56     | 90     | 13,167                                             | 25,830        | 33,887  | 59,717  |
| 20                                           | SAFCO      | Shaheed Benazirabad | 33                                  | 2696          | 1397   | 4,093  | 2,473                                              | 15,020        | 10,992  | 26,012  |
| 21                                           |            | Naushehro Feroze    | 86                                  | 2056          | 1062   | 3,118  | 1,531                                              | 9,517         | 5,110   | 14,627  |
| Total SAFCO                                  |            | 2                   | 119                                 | 4,752         | 2,459  | 7,211  | 4,004                                              | 24,537        | 16,102  | 40,639  |
| 22                                           | TRDP       | Dadu                | 41                                  | 243           | 126    | 369    | 1,787                                              | 10,197        | 5,872   | 16,069  |
| 23                                           |            | Jamshoro            | 3                                   | 15            | 10     | 25     | 710                                                | 3,785         | 2,531   | 6,316   |
| 24                                           |            | Tharparkar          | 0                                   | 0             | 0      | 0      | 92                                                 | 505           | 331     | 836     |
| Total TRDP                                   |            | 3                   | 44                                  | 258           | 136    | 394    | 2,589                                              | 14,487        | 8,734   | 23,221  |
| Grand Total                                  |            | 24                  | 754                                 | 7,932         | 4,348  | 12,280 | 36,891                                             | 145,547       | 104,451 | 249,998 |

### C. Details of Settlement Level Environmental & Social Screening Conducted.

| Table C-1: Settlement level Environmental & Social Screening Conducted |            |                   |                                         |                                                    |
|------------------------------------------------------------------------|------------|-------------------|-----------------------------------------|----------------------------------------------------|
| S. No.                                                                 | Name of IP | Name of Districts | E&S Screening Conducted (Apr-June 2025) | Cumulative E&S Screening Conducted as of June 2025 |
| 1                                                                      | HANDS      | Thatta            | -                                       | 500                                                |
| 2                                                                      |            | Sukkur            | 46                                      | 608                                                |
| 3                                                                      |            | Umerkot           | -                                       | 590                                                |
| 4                                                                      |            | Hyderabad         | 51                                      | 471                                                |
| 5                                                                      |            | Ghotki            | 96                                      | 2274                                               |
| 6                                                                      |            | Malir             | -                                       | 393                                                |
| 7                                                                      |            | Kashmore          | -                                       | 391                                                |
| Total HANDS                                                            |            | 7                 | 193                                     | 5,227                                              |
| 8                                                                      | NRSP       | Badin             | 69                                      | 1230                                               |
| 9                                                                      |            | Matiari           | 191                                     | 1081                                               |

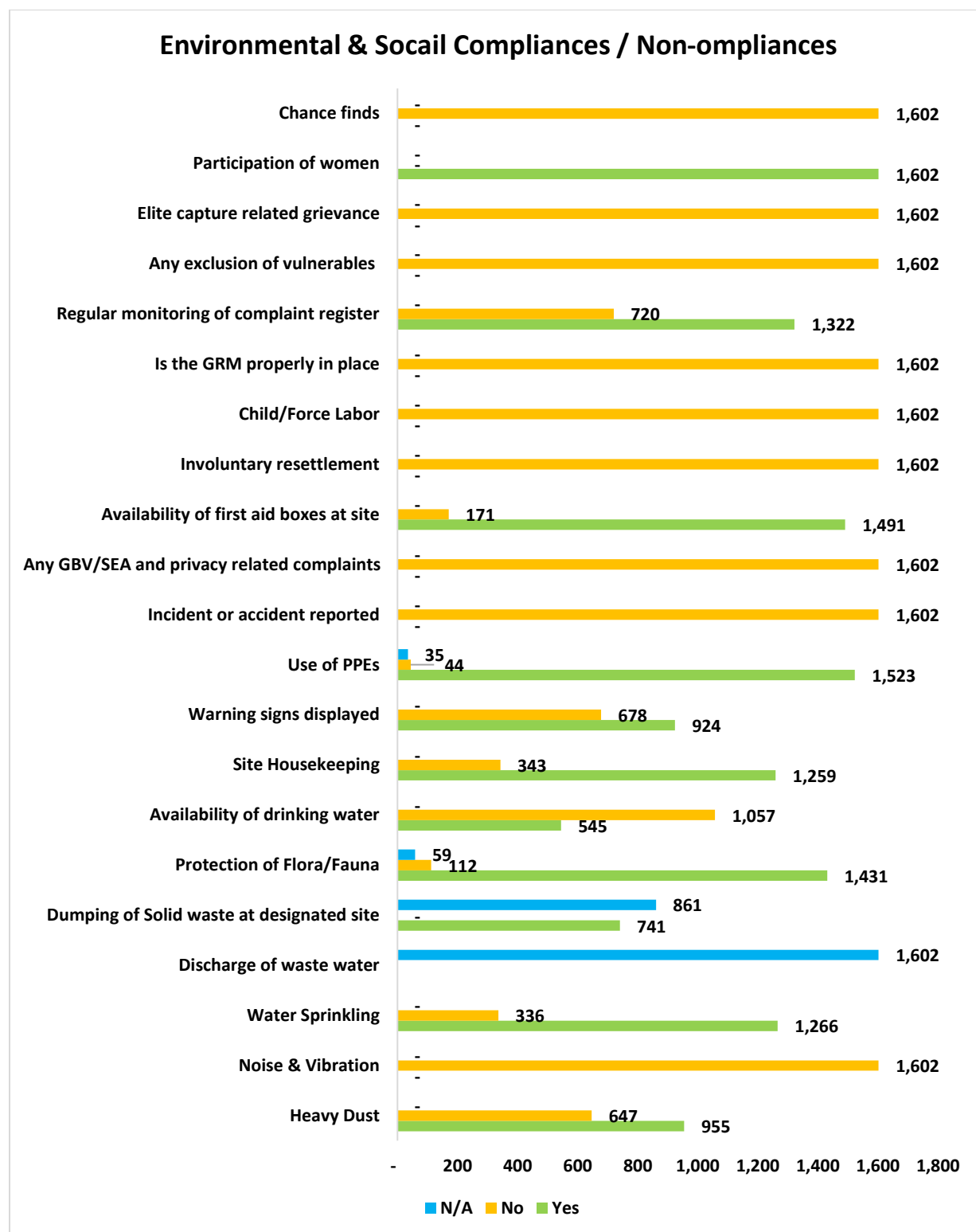
| Table C-1: Settlement level Environmental & Social Screening Conducted |            |                     |                                         |                                                    |
|------------------------------------------------------------------------|------------|---------------------|-----------------------------------------|----------------------------------------------------|
| S. No.                                                                 | Name of IP | Name of Districts   | E&S Screening Conducted (Apr-June 2025) | Cumulative E&S Screening Conducted as of June 2025 |
| 10                                                                     |            | Mirpurkhas          | 124                                     | 1038                                               |
| 11                                                                     |            | Sanghar             | 365                                     | 1878                                               |
| 12                                                                     |            | Sujawal             | 29                                      | 1284                                               |
| 13                                                                     |            | T.M Khan            | 167                                     | 897                                                |
| 14                                                                     |            | Tando Allahyar      | 54                                      | 839                                                |
| Total NRSP                                                             |            | 7                   | 999                                     | 8,247                                              |
| 15                                                                     | SRSO       | Kamber              | -                                       | 2157                                               |
| 16                                                                     |            | Larkana             | 7                                       | 1840                                               |
| 17                                                                     |            | Khairpur            | 19                                      | 4524                                               |
| 18                                                                     |            | Shikarpur           | 0                                       | 1486                                               |
| 19                                                                     |            | Jacobabad           | 54                                      | 3118                                               |
| Total SRSO                                                             |            | 5                   | 80                                      | 13,125                                             |
| 20                                                                     | SAFCO      | Shaheed Benazirabad | 170                                     | 1736                                               |
| 21                                                                     |            | Naushehro Feroze    | 86                                      | 2017                                               |
| Total SAFCO                                                            |            | 2                   | 256                                     | 3,753                                              |
| 22                                                                     | TRDP       | Dadu                | 26                                      | 1906                                               |
| 23                                                                     |            | Jamshoro            | 43                                      | 800                                                |
| 24                                                                     |            | Tharparkar          | 5                                       | 125                                                |
| Total TRDP                                                             |            | 3                   | 74                                      | 2,831                                              |
| Grand Total                                                            |            | 24                  | 1602                                    | 33,183                                             |

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D. Details of Environmental and Social Monitoring Conducted

| Table D-1: Environmental and Social Monitoring Conducted |                     |                                   |                                 |                                 |                                           |                                                    |                                 |                                 |                                       |
|----------------------------------------------------------|---------------------|-----------------------------------|---------------------------------|---------------------------------|-------------------------------------------|----------------------------------------------------|---------------------------------|---------------------------------|---------------------------------------|
| IP                                                       | District            | Quarter April 2025 - June 2025    |                                 |                                 |                                           | Cumulative 1st, 2nd and 3rd Visits as of June 2025 |                                 |                                 | Cumulative Monitoring as of June 2025 |
|                                                          |                     | 1st Visit (Start of Construction) | 2nd Visit (During Construction) | 3rd Visit (Post Completion 80%) | Cumulative Monitoring in the last Quarter | 1st Visit (Start of Construction)                  | 2nd Visit (During Construction) | 3rd Visit (Post Completion 80%) |                                       |
| TRDP                                                     | Dadu                | 130                               | 21                              | 1                               | 152                                       | 1,972                                              | 1,189                           | 645                             | 3,806                                 |
|                                                          | Jamshoro            | 135                               | 148                             | 101                             | 384                                       | 445                                                | 467                             | 276                             | 1,188                                 |
|                                                          | Tharparker          | 3                                 | -                               | -                               | 3                                         | 139                                                | 15                              | -                               | 154                                   |
|                                                          | <b>Total</b>        | <b>268</b>                        | <b>169</b>                      | <b>102</b>                      | <b>539</b>                                | <b>2,556</b>                                       | <b>1,671</b>                    | <b>921</b>                      | <b>5,148</b>                          |
| SRSO                                                     | Jacobabad           | 350                               | 24                              | -                               | 374                                       | 1,899                                              | 911                             | -                               | 2,810                                 |
|                                                          | Kamber Shahdadkot   | 243                               | 511                             | 163                             | 917                                       | 577                                                | 1,302                           | 202                             | 2,081                                 |
|                                                          | Khairpur            | 1,104                             | 1,107                           | 38                              | 2,249                                     | 2,718                                              | 584                             | 100                             | 3,402                                 |
|                                                          | Larkana             | 1,188                             | 86                              | -                               | 1,274                                     | 1,324                                              | 815                             | 81                              | 2,140                                 |
|                                                          | Shikarpur           | 1,380                             | -                               | -                               | 1,380                                     | 1,984                                              | 482                             | -                               | 2,466                                 |
|                                                          | <b>Total</b>        | <b>4,265</b>                      | <b>1,728</b>                    | <b>201</b>                      | <b>6,194</b>                              | <b>8,502</b>                                       | <b>4,094</b>                    | <b>383</b>                      | <b>12,899</b>                         |
| SAFCO                                                    | Noushehro Feroz     | 1,684                             | 2,734                           | 2,392                           | 6,810                                     | 2,687                                              | 2,485                           | 3,238                           | 8,410                                 |
|                                                          | Shaheed Benazirabad | 1,398                             | 888                             | 385                             | 2,671                                     | 2,632                                              | 1,135                           | 569                             | 4,336                                 |
|                                                          | <b>Total</b>        | <b>3,082</b>                      | <b>3,622</b>                    | <b>2,777</b>                    | <b>9,481</b>                              | <b>5,319</b>                                       | <b>3,620</b>                    | <b>3,807</b>                    | <b>12,746</b>                         |
| HANDS                                                    | Thatta              | -                                 | -                               | -                               | -                                         | 152                                                | 182                             | 14                              | 348                                   |
|                                                          | Sukkur              | 72                                | 51                              | 7                               | 130                                       | 972                                                | 347                             | 49                              | 1,368                                 |
|                                                          | Umerkot             | 16                                | 39                              | 191                             | 246                                       | 718                                                | 381                             | 325                             | 1,424                                 |
|                                                          | Hyderabad           | 288                               | 186                             | 177                             | 651                                       | 648                                                | 444                             | 267                             | 1,359                                 |
|                                                          | Ghotki              | 71                                | 65                              | 323                             | 459                                       | 1,757                                              | 1,489                           | 619                             | 3,865                                 |
|                                                          | Malir               | -                                 | -                               | -                               | -                                         | 5                                                  | 5                               | -                               | 10                                    |
|                                                          | Kashmore            | -                                 | -                               | -                               | -                                         | 217                                                | 217                             | 61                              | 495                                   |
|                                                          | <b>Total</b>        | <b>447</b>                        | <b>341</b>                      | <b>698</b>                      | <b>1,486</b>                              | <b>4,469</b>                                       | <b>3,065</b>                    | <b>1,335</b>                    | <b>8,869</b>                          |
| NRSP                                                     | Badin               | 32                                | 14                              | 16                              | 62                                        | 904                                                | 197                             | 110                             | 1,211                                 |
|                                                          | Matiari             | 178                               | 70                              | 8                               | 256                                       | 637                                                | 257                             | 39                              | 933                                   |
|                                                          | Mirpurkhas          | 147                               | 86                              | 45                              | 278                                       | 1,037                                              | 202                             | 122                             | 1,361                                 |
|                                                          | Sanghar             | 160                               | 400                             | 100                             | 660                                       | 1,364                                              | 859                             | 242                             | 2,465                                 |
|                                                          | Sujawal             | 43                                | 34                              | 20                              | 97                                        | 847                                                | 227                             | 120                             | 1,194                                 |
|                                                          | T.M Khan            | 115                               | 62                              | 27                              | 204                                       | 785                                                | 236                             | 151                             | 1,172                                 |
|                                                          | Tando Allahyar      | 2                                 | 5                               | 1                               | 8                                         | 786                                                | 60                              | 65                              | 911                                   |
|                                                          | <b>Total</b>        | <b>677</b>                        | <b>671</b>                      | <b>217</b>                      | <b>1,565</b>                              | <b>6,360</b>                                       | <b>2,038</b>                    | <b>849</b>                      | <b>9,247</b>                          |
| <b>Grand Total</b>                                       |                     | <b>8,739</b>                      | <b>6,531</b>                    | <b>3,995</b>                    | <b>19,265</b>                             | <b>27,206</b>                                      | <b>14,488</b>                   | <b>7,215</b>                    | <b>48,989</b>                         |

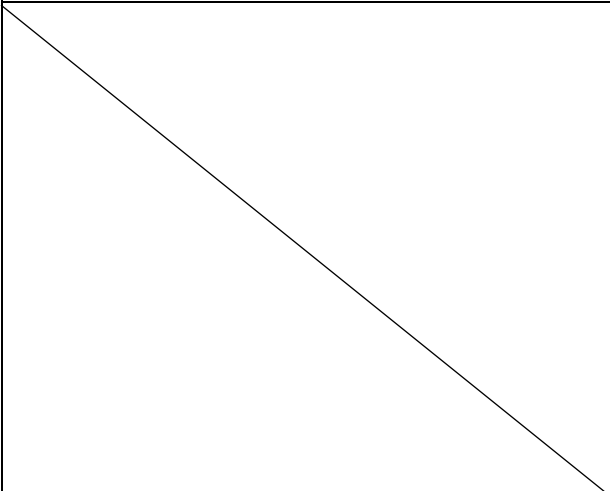
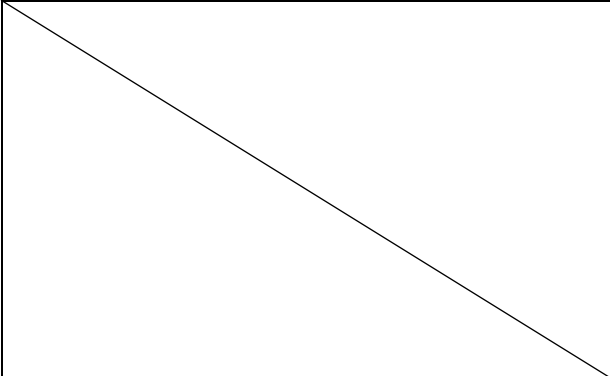
## Environmental and Social Compliances and Non-Compliances



## Corrective Actions Taken

| Table D-2: Corrective Actions Taken |                                              |                                                                                                                                                                                                                                              |
|-------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S. No.                              | Parameters                                   | Corrective Measures                                                                                                                                                                                                                          |
| 1.                                  | Heavy Dust                                   | <ul style="list-style-type: none"> <li>Material was covered/stored on the location away from the windy areas to avoid dust emissions.</li> </ul>                                                                                             |
| 2.                                  | Noise & Vibration                            | -                                                                                                                                                                                                                                            |
| 3.                                  | Water Sprinkling                             | <ul style="list-style-type: none"> <li>It was advised to sprinkle water regularly on the construction site during construction activities to avoid dust emissions.</li> </ul>                                                                |
| 4.                                  | Discharge of wastewater                      | -                                                                                                                                                                                                                                            |
| 5.                                  | Dumping of Solid waste at designated site    | -                                                                                                                                                                                                                                            |
| 6.                                  | Protection of Flora/Fauna                    | <ul style="list-style-type: none"> <li>Trees/plants near the construction site to be protected by local bushes or bricks available on site from being damaged</li> <li>No fauna species to be hurt due to construction activities</li> </ul> |
| 7.                                  | Availability of drinking water               | -                                                                                                                                                                                                                                            |
| 8.                                  | Site Housekeeping                            | <ul style="list-style-type: none"> <li>Site keeping has been maintained on the construction site.</li> <li>All the construction material to be kept confined to the designated place</li> </ul>                                              |
| 9.                                  | Warning signs displayed                      | <ul style="list-style-type: none"> <li>Warning signs and markings to be displayed on the construction site in the local language.</li> </ul>                                                                                                 |
| 10.                                 | Use of PPEs                                  | <ul style="list-style-type: none"> <li>Beneficiaries are provided with awareness of the advantages of the use of PPEs and encouraged the use of PPEs</li> </ul>                                                                              |
| 11.                                 | Incident or accident reported                | -                                                                                                                                                                                                                                            |
| 12.                                 | Any GBV/SEA and privacy related complaints   | -                                                                                                                                                                                                                                            |
| 13.                                 | Availability of first aid boxes at site      | <ul style="list-style-type: none"> <li>First Aid boxes are made available with the VRC</li> </ul>                                                                                                                                            |
| 14.                                 | Involuntary resettlement                     | -                                                                                                                                                                                                                                            |
| 15.                                 | Child/Force Labor                            | -                                                                                                                                                                                                                                            |
| 16.                                 | Is the GRM properly in place                 | <ul style="list-style-type: none"> <li>Beneficiaries will be given awareness on using the GRM system</li> </ul>                                                                                                                              |
| 17.                                 | Regular monitoring of the complaint register | <ul style="list-style-type: none"> <li>Monitoring of the complaint register is to be done regularly</li> </ul>                                                                                                                               |
| 18.                                 | Any exclusion of the vulnerable              | -                                                                                                                                                                                                                                            |
| 19.                                 | Elite capture-related grievance              | -                                                                                                                                                                                                                                            |
| 20.                                 | Participation of women                       | -                                                                                                                                                                                                                                            |
| 21.                                 | Chance finds                                 | -                                                                                                                                                                                                                                            |

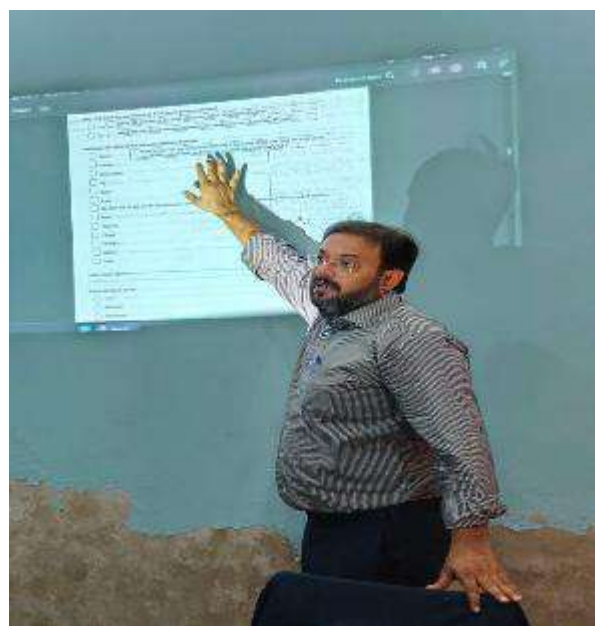
| Table D-4: Non-Compliances and Compliances                                          |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Non-Compliances                                                                     | Compliances                                                                          |
|    |    |
| Exposed construction material                                                       | Construction material covered                                                        |
|   |   |
| 5s not maintained                                                                   | 5s maintained                                                                        |
|  |  |
| PPEs non-compliance                                                                 | Construction work wearing PPE                                                        |

| Table D-4: Non-Compliances and Compliances                                          |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Non-Compliances                                                                     | Compliances                                                                          |
|    |    |
| Stone masonry material not cordoned off                                             | Material cordoned off                                                                |
|   |   |
|                                                                                     | Unsafe stagnant water cordoned off                                                   |
|  |  |
|                                                                                     | Safety signs displayed                                                               |

## E. Details of the training conducted.

| Table E-1: Trainings conducted |                                                             |          |                     |                       |                    |
|--------------------------------|-------------------------------------------------------------|----------|---------------------|-----------------------|--------------------|
| S. No.                         | Training title/subject                                      | Sessions | Pax Attended (Male) | Pax Attended (Female) | Total Pax Attended |
| 1.                             | Environmental and Social Management Framework               | 1        | 18                  | 11                    | 29                 |
| 2.                             | Environmental and Social Screening Checklist                | 1        | 18                  | 11                    | 29                 |
| 3.                             | Environmental and Social Monitoring Checklist               | 1        | 18                  | 11                    | 29                 |
| 4.                             | Grievance Redressal Mechanism                               | 2        | 33                  | 29                    | 62                 |
| 5.                             | Labor Management Plan                                       | 1        | 18                  | 11                    | 29                 |
| 6.                             | Stakeholders Engagement                                     | 1        | 18                  | 11                    | 29                 |
| 7.                             | Environmental and Social Codes of Practice                  | 1        | 18                  | 11                    | 29                 |
| 8.                             | Foundations of Gender Equity and Transformative Programming | 1        | 18                  | 11                    | 29                 |
| 9.                             | Gender Action Plan                                          | 2        | 33                  | 29                    | 62                 |
| 10.                            | GBV Prevention and Mitigation                               | 1        | 14                  | 19                    | 33                 |
| 11.                            | Social Mobilization                                         | 1        | 14                  | 19                    | 33                 |
| 12.                            | Gender Responsive WASH                                      | 1        | 14                  | 19                    | 33                 |
| 13.                            | Gendered Impact of Climate Change                           | 1        | 14                  | 19                    | 33                 |
| 14.                            | Community-Based Disaster Risk Reduction                     | 1        | 14                  | 19                    | 33                 |
| 15.                            | Capacity Building of SOs for MHM Session                    | 1        | 3                   | 27                    | 30                 |
| 16.                            | Consultative Session with Female Masons                     | 1        | 0                   | 19                    | 19                 |
| 17.                            | Community Sessions on MHM                                   | 18       | 0                   | 1035                  | 1035               |
| Total                          |                                                             | 36       | 265                 | 1311                  | 1576               |

Table E-1: Training Pictures



## F. District-Wise – Approved Occupancy Case List

| S #          | District            | No. of cases approved | Implementing Partner (IP) |
|--------------|---------------------|-----------------------|---------------------------|
| 1            | Shaheed Benazirabad | 04                    | SAFCO                     |
| 2            | Jacobabad           | 03                    | SRSO                      |
| 3            | Khairpur            | 03                    | SRSO                      |
| 4            | Kambar Shahdadt     | 23                    | SRSO                      |
| <b>Total</b> |                     | <b>33</b>             |                           |

## G. Grievance Redressal Mechanism.

| Table G-1: Grievance Redressal Mechanism |                  |                 |                 |
|------------------------------------------|------------------|-----------------|-----------------|
| Grievances Category                      | Total Registered | Closed-Resolved | Registered Open |
| Already Constructed (Other than SPHF)    | 7                | 6               | 1               |
| Banking                                  | 14,658           | 14,047          | 611             |
| Certification                            | 208              | 161             | 47              |
| Disbursement/Installment                 | 20,140           | 19,453          | 687             |
| Environment & Social                     | 54               | 54              | 0               |
| Exclusion*                               | 82,314           | 0               | 82,314          |
| Exploitation                             | 317              | 256             | 61              |
| Gender-Based Violence                    | 1                | 1               | 0               |
| IP Issues                                | 221              | 188             | 33              |
| Land Use                                 | 46               | 46              | 0               |
| Others                                   | 358              | 353             | 5               |
| Under Review                             | 38,308           | 36,278          | 2,030           |
| <b>Grand Total</b>                       | <b>156,627</b>   | <b>70,845</b>   | <b>85,782</b>   |

\*24,694 exclusion cases are under validation

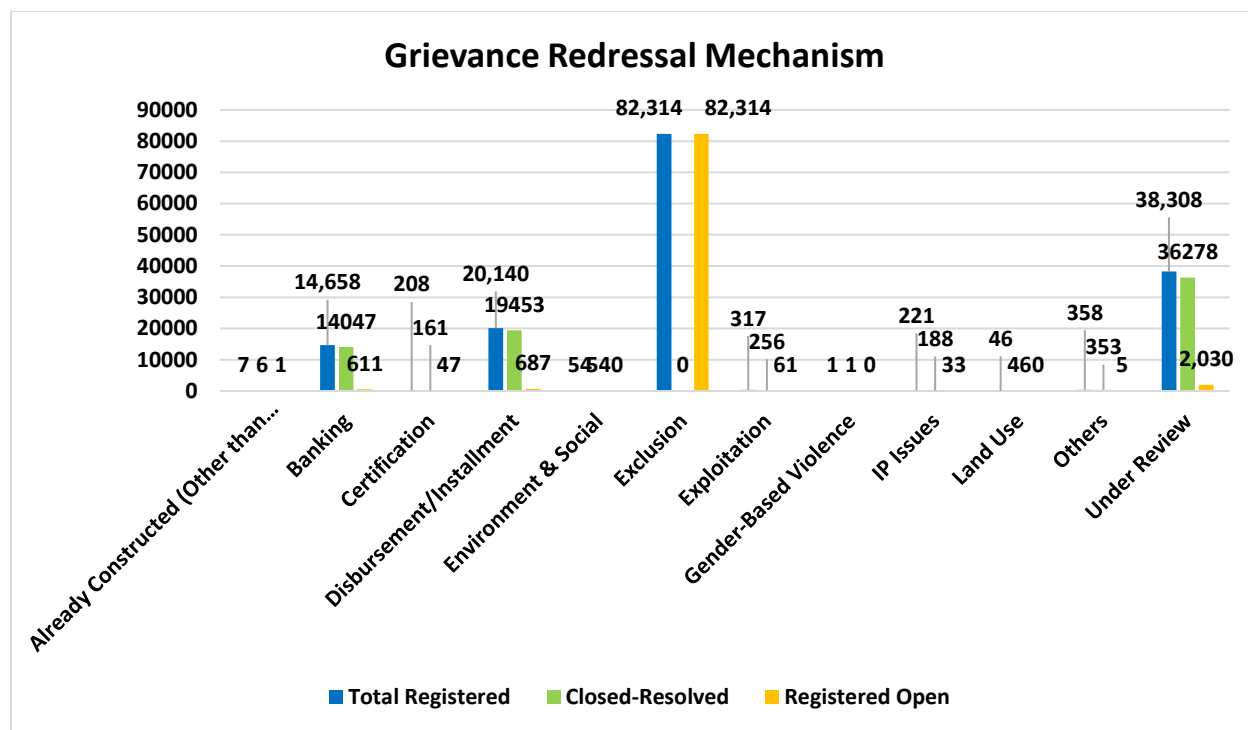


Figure 1: Grievance Redressal Mechanism

## H. ESMF Plus Initiatives

### GI: Climate Smart Villages/Settlement (Climatechangetown.pk)

Below are the updates on climate-smart villages/settlement:

1. The design phase has been completed. The project team is currently developing a comprehensive survey through the M. Water portal for Mirzo Awan. This survey will support the WASH initiative.
2. The Terms of Partnership (ToP) between SPHF and the Village Organization (VO) has been signed.
3. A bank account in the name of the Village Organization (VO) has been opened
4. The project is now anticipated to commence in 2<sup>nd</sup> week of August 2025.

### G.II: Good Bricks, Conventional Concrete Bricks and Eco-Friendly Bricks

Multiple batches were produced to evaluate strength and durability. Upon achieving the desired test results, the approved batch will be utilized for housing construction. Construction using the approved quality bricks is expected to commence in April 2025.

As of May 2025, a total of 6 climate-friendly and resilient houses has been completed using high-quality bricks. 2 from eco-friendly bricks and 4 using good brick.

**Location:** Lakhobhanbhro, Thatta

**Date of Completion:** 9<sup>th</sup> May 2025

**Advantages of using the Good Brick:** a notable temperature drop of 6°C was observed inside one of the houses built with the new CSEB good bricks. The indoor temperature, recorded via mobile sensor

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app, was significantly cooler compared to the ambient outdoor temperature reported by AccuWeather. This reflects the thermal efficiency and climate resilience of our material innovation an encouraging outcome for sustainable housing.

