



Government of Pakistan
Prime Minister's Office
National Disaster Management Authority

ANNUAL REPORT 2020

STRIVING FOR A DISASTER RESILIENT PAKISTAN



CHAIRMAN NDMA FOREWARD – ANNUAL REPORT 2020

Pakistan's vulnerability to disasters is well-documented, as on the Global Climate Risk Index, Pakistan has remained amongst top 10 most vulnerable countries in the world. Year 2020 started with unprecedented snowfall resulting into avalanches and closure of communication arteries; however, the biggest challenge for Pakistan came in the shape of COVID-19 Pandemic and Locust Swarms, where NDMA provided operational, logistics, warehousing and material support to MoNHSR&C for COVID-19 and anti-locust support to MoNFS&R. Year 2020 also witnessed above average rains especially in Sindh, which saw unprecedented urban flooding in Karachi and inundation of eastern districts of interior Sindh. In its aftermath, NDMA was assigned the behemoth task of coordinating the rehabilitation of Karachi's storm water drainage system, which kick-started at the end of the year.

With the aim of achieving Disaster Resilience, NDMA is progressing towards implementation of disaster risk reduction interventions in all spheres of life. However, impacts of global climate change and human induced disasters are becoming a major recurring challenge. DRR is the enduring path to mitigate the effects of future disasters as envisaged in Sendai Framework for Disaster Risk Reduction.

We as a country have faced immense challenges but proved ourselves as a resilient nation and have always stood tall and determined in face of adversities by learning from past experiences, thereby ensuring preparedness through mitigation measures and generating proactive responses.

SECTION – I

An Overview of Year 2020

1. The year 2020 dawned with the unprecedented threat of COVID-19 Pandemic, which saw even the most advanced health care systems in the world strained and overburdened. Similarly, Pakistan faced this novel challenge coupled with locust swarms threatening the food security of agrarian society of the motherland. The Pandemic not only posed challenges to the health system but the global lockdown and move restrictions created multiple problems both for imports and exports. It is under this backdrop, where NDMA undertook disaster response activities from import of essential medical supplies under restricted global transportation to ensuring their supplies inland by utilizing all avenues.

2. Based on multiple challenges having vast scopes of COVID-19 and locust threat to food security of Pakistan, separate forums were established i.e. National Command and Operation Centre (NCOC) and National Locust Control Centre (NLCC) for COVID and anti-locust operation respectively; however NDMA was in full support of these forums by ensuring timely procurement and detailed coordination amongst various stakeholders both domestically and internationally as well.

3. With regards to disasters, year 2020 began with unprecedented snowfall in AJ&K, GB and Balochistan, where avalanches engulfed entire village settlements and communication arties were choked. In the lead-up to Monsoon 2020, Shishper Glacier once again posed a challenge; however, due to proactive measures undertaken at national and provincial level, effective mitigation measures were implemented before its eventual drainage. Monsoon 2020 saw record breaking rains causing urban flooding in Karachi and inundation of interior Sindh farmland, which led to numerous losses and damages. In the aftermath of this event, NDMA was assigned the daunting task of rehabilitating Karachi's storm water drainage system.



NDMA: Organization and Revision of NDM Act 2010

4. **General.** NDMA was established in 2007 as a lead agency to respond to whole spectrum i.e. prevention, preparedness, mitigation, response, recovery and rehabilitation of disaster management at Federal Level. National Disaster Management Authority (NDMA) is the executive arm of National Disaster Management Commission (NDMC). NDMA acts as an implementing, coordinating and monitoring body as per National Policy.

5. Revision of NDM Act 2010

- a. NDMA initiated the process to amend the NDM Act 2010 in line with the decisions of Federal Cabinet and NDMC in 2019. Accordingly, on the directions of Cabinet Committee for the Disposal of Legislative Cases (CCLC), the case for resolution under Article 144 of the constitution was actively pursued with the Provincial Governments. Despite COVID-19 commitments, efforts were made to coordinate with the provinces for the said resolution and after rigorous efforts, the Provincial Assembly of Balochistan passed the resolution. NDMA is actively pursuing the resolution for proposed amendment in the NDM Act with the remaining Provincial Governments.
- b. In addition, keeping in view the lessons learnt during ongoing COVID-19 pandemic, National Disaster Management Authority has further amended the draft NDM Act 2021 by incorporating the relevant provisions to facilitate handling of disaster emergencies at all levels especially the Pandemic. The proposed amendments in the NDM Act, once passed, will strengthen the institutional structure and will further enhance the disaster management preparedness and emergency response measures both at federal and provincial levels.

SECTION – II

RESPONSE TO DISASTERS

6. **General.** In year 2020, Pakistan faced various natural calamities and NDMA remain at the forefront as a federal body to address the whole spectrum of disaster management. The district and provincial bodies and all concerned stakeholders were kept on board through various coordination meetings and consultations. The calamities, their effects and the response measures taken in each case are covered in succeeding paragraphs.

Desert Locust Swarms – December 2019

7. Desert Locusts have threatened agricultural production in Asia, Middle East and Africa for centuries. 38% of landmass of Pakistan (60% in Balochistan, 25% in Sindh and 15% in Punjab) is the desert locust's breeding area, while the whole country may be its prone area if not contained in breeding regions. Winter breeding areas of Balochistan were major target of locust invasion; however, it covered almost half of Pakistan (more than 60 districts of Pakistan, out of 154 districts) were affected. With the coordinated efforts of all stakeholders, including Department of Plant Protection (DPP), Provincial Agriculture Extension Departments, NDMA, PDMAs and Pakistan Army, the locust invasion was successfully combated, with no major loss to crops.

8. **Response Measures.** Prior to establishment of NLCC. NDMA was declared lead agency for national coordination & procurement efforts against locust. Significant measures taken by NDMA, in coordination with other departments for controlling desert locust are given below: -

- a. **Monitoring of Anti-Locust Efforts.** NLCC conducted daily conferences, which were attended by officials of DPP, Agriculture Extension Departments, SUPARCO, MoNFSR, NDMA and Provincial Military Locust Coordinator, through video link. Weekly meetings were attended by senior officials of all these departments, where progress



of anti-locust operations were discussed and decisions were made to address the problem areas.

b. **Arrangements of Resources**. NDMA adopted three-pronged strategy for arrangement of resources: -

(1) Procurements.

(2) Donations.

(3) Indigenous Developments.

(4) **Pesticides**. In order to assist the locust control operations, pesticides were arranged through following sources: -

(a) **Procurement**

i. 183,750 litres of Malathion in March and July 2020.

ii. 100,000 litres of Lambda in March and May 2020.

(b) **Donations**

i. 500,000 Litres of Malathion by China.

ii. 100,000 litres of Lambda by China.

iii. 58,502 litres of Lambda by Japan.

(c) **Indigenous Development of Pesticide**

i. DPP conducted tests / trials of local producers of Malathion or similar pesticide, in order to reduce dependence on imported pesticide.

ii. University of Faisalabad and Mian Nawaz Sharif University Multan carried out research for non-hazardous bio-pesticides for locust control.

(5) **ULV and EC Sprayers**. NDMA arranged sprayers for anti-locust spray by following means: -

- (a) **Procurement**. NDMA purchased 83 x Micron Sprayers from UK, through Pakistani High Commission.
 - (b) **Donations**. 50 x EC sprayers were donated by China, whereas, DFID (UK) provided 50 x Micron ULV sprayers to Pakistan.
 - (c) **Indigenous Development of Sprayers**. Due to delay in delivery of Micron Sprayers from UK, NDMA encouraged / coordinated indigenous development of ULV sprayers by local manufacturers. 20 sprayers were procured from Agritec Industries Multan on request of DPP.
- (6) **Issuance of PPEs**. PPEs were allotted to Provinces and to Army Aviation Command for **survey and control teams** working in the field, against poisonous impact of spray fumes of pesticides (details at **Annex A**).
- (7) **GPS and e-Locust Devices**
- (a) **Procurement**. NDMA procured 80 x GPSs for survey operations, for use in the remote / border areas of Provinces.
 - (b) **Donations**. DFID / FAO donated 100 e-Locust devices.
- (8) **Distribution of Funds for Hiring of Vehicles and Fuel**. Funds were transferred to all four Provinces by NDMA, on account of hiring charges of vehicles and fuel for locust survey and control teams.
- (9) **Aerial Spray against Locust**. Following aerial assets were operated for anti-locust spray: -
- (a) From DPP, 3 x Beaver Aircrafts for spray and 1 x Beaver Aircraft for training of pilots; however only one aircraft was available for spray, due to non-availability of pilots.

(b) 5 x Bell Jet Ranger (BJR) helicopters of Pakistan Army were made operational after fitting of aerial spray kits and conducted spray missions.

(c) 1 x Piper Brave aircraft was rented for spray.

(10) **Establishment of NLCC**. On 2 June 2020, GoP established National Locust Control Centre) and Engineer-in-Chief of Pakistan Army was appointed as National Coordinator, to coordinate efforts to combat locust. However, NDMA continued supporting efforts, through provision of assistance & procurement of essential items, as recommended by the NLCC.

9. **Swiss Development Cooperation (SDC) Project**. SDC supported NDMA for combating locust emergency and its management project (15 Mar – 30 Jun), which included survey of affected areas, purchasing of PPEs, Pesticides, spray kit. and spraying in the locust affected areas in close coordination with Provincial Agriculture Departments.

10. **Heavy Snowfall / Avalanche – January 2020**. Heavy Snowfall was reported in several Districts of Balochistan (Quetta, Ziarat, Pishin, Killa Abdullah, Kachhi Mastung and Harnai), KP (Lower Chitral, Upper Sir, Mansehra and North Waziristan), AJ&K (Bagh, Lasdana, Sodhan Gali, Neelum) and GB (Gilgit, Diamer, Astore, Ghizer, Hunza, Nagar, Sakardu, Ghanche, Shigar, Kharmanhg) from 11 - 14 January 2020. There had also been an avalanche in District Neelum AJ&K engulfing houses. The event resulted in loss of 27 x lives and injured 29 x persons. A total of 35 x houses were damaged. NDMA issued 25 x tents, 275 x blankets, 105 x tarpaulin and 240 x first aid kits to SDMA for distribution in affected areas of District Neelum, AJ&K. Other response measures are:-

a. More than 300 x persons were struck on N-50 between Quetta and Kahnozai and rescued by PDMA rescue team with the help Levies force and FC Balochistan. Cooked food and blankets were distributed

among travellers on various highways from 11 – 13 January 2020 for about 10,000 people.

- b. 2 x Bell helicopters were deployed for evacuation in Mand area, 1 x MI-17 in Nakundi sector, District Chaghi.

11. **COVID-19.** Since the outbreak of COVID-19 in China during December 2019, almost all countries in the world initiated preventive measures to stop the spread of the pandemic. Government of Pakistan also initiated such measures to stop the spread of infection in Pakistan. NDMA was assigned primary responsibility to provide operational, logistic, warehousing and material support to the Ministry of National Health Services Regulations and Coordination, national health system, provincial and regional governments, their health departments, and other stakeholders involved in national response to COVID-19 in Pakistan. Data on infection and deaths etc. is given in infographics (Para 18a). Details of NDMA's efforts undertaken for mitigating the effects and mounting response to COVID-19 infectious disease are:-

- a. **Establishment of Quarantine Centres.** NDMA established quarantine centres with more than 1200 bed capacity at Torkham, Chaman and Taftan border crossings on western borders:-
- b. **Distribution of PPEs and other items/equipment.** NDMA has distributed various items/ equipment available in the stock to all hospitals, provinces/ regions and government departments. Due to provision of required testing material, and equipment, the number of functioning laboratories in the country was increased to 143 laboratories. Details are covered in **Annex F.**
- c. **Hospital Oxygen Ramp-Up.** NDMA executed/ installed over 2850 beds in hospitals/ facilities managing COVID-19 patients, with oxygen supply and bio-medical equipment including ICU ventilators, BIPAPs and low flow oxygen, etc. Details of equipment provided during this drive are at **Annex B.**



- d. **Construction of Isolation Hospital and Infectious Disease Treatment Centre (IHITC), Islamabad.** In view of the Pandemic of COVID-19, People's Republic of China (PRC) donated USD 4.0 M to the Government of Pakistan to establish a dedicated 250 Beds Isolation and Treatment Centre/ Hospital in Islamabad for Covid-19 patients during active phase of current pandemic. Keeping in view the emergency for the establishment of the facility, Frontier Works Organization (FWO), was tasked for construction of the hospital, which was completed within a record time of 40 days. Due to lack of HR, NDMA also made this hospital functional for an initial period of 6 x months through Bin Qutb Foundation.
- e. **Efforts for Facilitation of Indigenous Development.** A meeting with Pharmaceutical and medical equipment manufacturers and Associations was convened at NDMA in March 2020, where Chairman NDMA in the presence of DG Health, ED NIH and CEO DRAP made an appeal to the manufacturers and pharmaceutical Associations to ensure local manufacturing of PPEs besides ensuring smooth supply of related items and drugs in the market for use in COVID -19. He assured of full support and offered all possible facilitation should they face any issues and challenges etc.
- f. **Activation of Working Groups.** NDMA notified the sectoral working groups of Health, Nutrition, WASH, Food Security and Agriculture, Protection, Education and Logistics in May, 2020 to fight the COVID-19 pandemic amongst the vulnerable groups.
- g. **Mobilization & Distribution of Hand Hygiene & Anti-Bacterial Items.** NDMA distributed hand hygiene and anti-bacterial items in the month of December to the PDMA's of KP, Sindh and AJ&K.
- h. **Mobilization & Donation of 120,000 Sanitizer Bottles.** NDMA secured a total of 120,000 bottles of Hand sanitizers and allocated the

same to the respective health authorities for further distribution among the most marginalized communities of Pakistan.

- i. **Activation of Gender and Humanitarian Task Force (GHTF).** NDMA reactivated the Gender and Humanitarian Task Force (GHTF) that aims to assist the Humanitarian Country Team (HCT) and the Government of Pakistan for gender mainstreaming during emergencies.
- j. **Development of Pakistan Preparedness and Response Plan, COVID-19.** NDMA developed Pakistan Preparedness and Response Plan, COVID-19 (PPRP) worth USD 595 million in consultations with MoNHSR&C, UNOCHA and WHO. The primary focus of the plan was prevention, preparedness and treatment of the COVID-19 outbreak in the country.

12. **Air Crash – May 2020.** PIA aircraft A320-214 (8P/162Y) Flight No. PK-8303 crashed before landing at Jinnah International Airport Karachi while flying from Lahore on 22 May 2020. A total number of 91 x passengers and 8 x crew members were on board. All but two persons on-board died. NDMA coordinated rescue operations with the active support of Armed Forces, Law Enforcement Agencies, Rescue Services and relevant authorities.

13. **Shishper Glacier – May 2020.** The glacial lake formed at Shishper Glacier, Hasanabad Village, District Hunza, GB was created after the surging event in 2018 remained largely in-active since its flooding in June 2019. However, after heavy snowfall during winter season of 2019/20, flood event occurred after the lake's natural drainage channels opened allowing heavy flows of water to discharge downstream to Hasanabad in May 2020. Hasanabad Hydropower Project, 6 x Clean Water Supply Schemes, 2 x Suspension Foot Bridges, 5 x Irrigation Water Channels, 4 x Houses and 800 feet of Karakorum Highway were damaged; however, no loss of human life occurred.

14. **Monsoon 2020.** During Monsoon 2020 (July to September), +41% above normal rainfall was recorded in the whole Country. Summary of causalities



and damages are covered in infographics (Para 18b). Following significant events were reported during Monsoon 2020: -

- a. In July / August unprecedented rains triggered Urban Flooding in Karachi, inundation / flooding in other parts of Sindh, flash flooding / flooding in parts of Balochistan, KP & GB, Land sliding along KKH at different locations and some flooding / inundation in districts along River Indus.
- b. Government of Sindh declared 20 x districts as calamity hit on 29 August 2020 and in collaboration with UN, conducted Rapid Need Assessment (RNA) for response in 9 flood affected districts (Karachi Central, Karachi East, Karachi West, Karachi Malir, Hyderabad, Mirpur Khas, Tharparkar, Sanghar and Umerkot) from 3 September to 6 September 2020.
- c. Urban Flooding in Karachi due to heavy rains occurred on 6 – 7 July, 17 July, 26 – 27 July, 6 – 8 August, 21 August and 25 – 28 August 2020.

15. **Response Measures**

- a. National Emergency Operation Centre (NEOC) and Army Flood Control Centres (AFCC) were activated for round the clock monitoring of developing situation in the country.
- b. Weather system, Eastern / Western Rivers and their tributaries and Reservoirs (Tarbela and Mangla) were continuously monitored by all stakeholders.
- c. Dissemination of weather alerts and warnings were coordinated in the form of SMS to communities in vulnerable areas. Moreover, daily SITREPs were shared with all stakeholders.
- d. Timely displacement of heavy earth moving machinery was ensured at key locations for clearance of landslides / debris especially along National Highways.

- e. NDMA coordinated aviation support from Pak Army for rescue and relief activities in Diامر (GB), Chitral (KP) and Dadu (Sindh).
 - f. 3x NDMA teams were deployed for on-ground assessment and for relief coordination in Districts Hyderabad, Badin, Umerkot and Mirpur Khas.
 - g. Medical Relief Camps were established in coordination with Pakistan Army in flood affected of Sindh and medicines were coordinated through WHO by the NDMA.
 - h. During urban flooding in Karachi and inundation across interior, NDMA coordinated with multiple national and international donors, including WFP, Nestlé Pakistan and UNHCR for the provision of essential relief items for the affected population.
 - i. Boats and manpower of Pak Army and Pak Navy for relief and rescue activities were coordinated by NDMA in Tehsil Johi, District Dadu.
 - j. Relief provided by NDMA/PDMAs/SDMA/GBDMA is at **Annex C**.
16. **Karachi Transformation Plan (KTP) by NDMA**
- a. **Karachi - City of Opportunities vis-a-vis Land of Disasters.**
Karachi, one of the largest metropolitan cities in the world, has expanded exponentially over the last 30 years without any proper Plan. Years long negligence by all stakeholders aggravated the existing Problems, which was compounded during Monsoon 2020, when unprecedented rainfall caused infrastructure damages, limiting citizens' mobility and commercial activities for days.
 - b. **Immediate Response/ Mitigation of Urban Flooding**
 - (1) As an immediate step, during August 2020, desilting/ cleaning of three major problematic Nullahs (Gujjar Nullah,

CBM Nullah & Moach Goth Nullah) were undertaken by NDMA through FWO.

- (2) Honorable Supreme Court of Pakistan in its order of 12 December 2020 directed NDMA to undertake cleaning of Nullahs in Karachi.
- (3) Karachi Transformation Plan (KTP) was announced by PM on 5 September 2020 for development of Karachi including, restoration/ revamping of Storm Water Drains in Karachi - NDMA's Component Under KTP.
- (4) KTP's Federal Projects were finalized by MoPD&SI through a Summary, which was approved by ECC on 24 December 2020 and ratified by the Federal Cabinet on 29 December 2020.

17. **Recovery and Rehabilitation Activities**

- a. **Seasonal Livelihood Program.** Seasonal Livelihood Program (SLP)/ Community Based Participatory Planning (CBPP) workshop was conducted by World Food Program (WFP) with the endorsement of NDMA for Districts Kurram and South Waziristan from 26 to 28 October, 2020.
- b. **NOCs Issued for Import of COVID 19 Stores.** NDMA issued 23 x NOCs for duty free import of relief items/ medical supplies to fight against COVID-19 & Locust spread in the country.
- c. **Pakistan Humanitarian Assistance to Foreign Countries.** After approval by the Federal Cabinet in the light of NDM Act 2010, NDMA on behalf of Government of Pakistan despatched humanitarian assistance to Afghanistan, Syria, Azerbaijan, Niger, Sudan and Iraq in the wake of COVID-19 pandemic and other disasters (details at **Annex D**).

- d. **Assistance from Brotherly Countries.** NDMA received national and international donations from donors to fight against COVID-19 and locust in the country. Details are attached at (**Annex E**).
- e. **Applications for Financial Assistance.** 44 x applications of affectees were received for compensation against their losses on account of various disasters/ calamities. These applications/ cases were forwarded to concerned PDMAs for redressal/ necessary action in the light of NDM Act 2010.
- f. **Establishment of Women and Child Friendly Centres.** NDMA with the financial and technical support of UNFPA & UNICEF established 4 Women and Child Friendly Centres (WCFC) in villages Nakkah, Mora Roshan Sang Kikri, Samwal Sharif and Afzalpur, to reach out to the most vulnerable population in the affected areas and to ensure the provision of protective environment to the vulnerable women and children.

18. **Losses/ Damages**

- a. **COVID-19.** Summary of casualties as on 31st December 2020 is as under: -

| PROVINCES / REGIONS | CONFIRM | ACTIVE | DEAD | RECOV |
|---------------------|----------------|---------------|---------------|----------------|
| Islamabad | 37,888 | 3,059 | 419 | 34,410 |
| Balochistan | 18,168 | 253 | 183 | 17,732 |
| KP | 58,701 | 3,344 | 1,649 | 53,708 |
| Punjab | 138,608 | 10,968 | 4,042 | 123,598 |
| Sindh | 215,679 | 16,699 | 3,560 | 195,420 |
| AJ&K | 8,277 | 399 | 222 | 7,656 |
| GB | 4,857 | 51 | 101 | 4,705 |
| TOTAL | 482,178 | 34,773 | 10,176 | 437,229 |



- b. **Monsoon 2020.** During Monsoon 2020, following damages/ losses occurred:-

| Provinces / Regions | Deaths | | | | Injured | | | | Houses Damaged | |
|---------------------|------------|-----------|------------|------------|------------|-----------|-----------|------------|----------------|----------------|
| | M | F | C | T | M | F | C | T | P | F |
| ICT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Punjab | 104 | 0 | 0 | 104 | 175 | 0 | 0 | 175 | 17 | 220 |
| KP | 37 | 24 | 64 | 125 | 52 | 22 | 27 | 101 | 746 | 933 |
| Sindh | 80 | 33 | 32 | 145 | 94 | 1 | 1 | 96 | 168,544 | 133,279 |
| Balochistan | 7 | 3 | 11 | 21 | 14 | 1 | 3 | 18 | 971 | 906 |
| GB | 6 | 1 | 9 | 16 | 4 | 1 | 0 | 5 | 801 | 258 |
| AJ&K | 2 | 2 | 8 | 12 | 4 | 5 | 0 | 9 | 118 | 50 |
| TOTAL | 236 | 63 | 124 | 423 | 343 | 30 | 31 | 404 | 171,197 | 135,646 |

Source: Respective PDMA's and DC Office Islamabad.

Note: M, F, C, T, P & T denotes Male, Female, Child, Total, Partially and Fully.

SECTION – III

DISASTER PREPAREDNESS

19. **Monsoon 2020**. Following activities were undertaken before the onset of Monsoon:-

- a. National Post Monsoon Review Conference-2019 on 9th January 2020.
- b. National Monsoon Preparedness Conference-2020 on 22nd June 2020.
- c. Preparing and issuance of National Monsoon Contingency Response Plan 2020.
- d. Activation of NEOC for Monsoon Season 2020.
- e. Requirement of Flood Fighting Equipment by Pak Army was met partially by PDMAs, while the requirement balance d being pursued by NDMA.

20. **Preparation of Tsunami Preparedness Guidelines**. NDMA is in the process of developing Tsunami Preparedness Guidelines with the cooperation of UNDP. In this regard, consultations on Tsunami Preparedness Guidelines were held with all stakeholders. 1st draft of the same is under review.

21. **Activities under Pakistan Resilience Partnership (PRP)**. Following activities were planned/ conducted in year 2020 under PRP: -

- a. **Webinars**. A webinar was conducted on “Mainstreaming gender and rights based approach in emergency response and recovery” to build technical and operation capacity.
- b. **Linking PRP with Other Network**. In order to develop PRP linkage with Prevention from Sexual Exploitation and Abuse (PSEA) Network a consultative meeting was held. The aim of this interaction was to train PRP partners and other concerned stakeholders on policy development and contextualization related to gender sensitivity and preventing sexual harassment and abuse.



- c. **Advocacy to Integrate DRM and School Safety Preparedness into Curricula.** To institutionalize capacity development program within training institutes and to integrate DRM and school safety preparedness into formal education and curricular, advocacy meeting with Education Department, State of Azad Jammu and Kashmir (AJK) was held. The aim of meeting was to sensitize the stakeholders on importance of integrating DRM into the school curriculum and its likely benefits.
 - d. **IEC Material and Media Booklet.** Awareness messages for placing on the products by the corporate sector were developed and handed over to FPCCI. These will contribute in enhancing learning and knowledge of Pakistani community about preparedness, response and recovery.
 - e. **Case Studies.** Local organizations were encouraged to develop the case studies based on their experience of COVID response. 8 case studies under the theme “localized actions for social behaviour change in COVID 19” were developed by local NGOs.
22. **Logistics Update.** Major achievements during the year 2020 are listed below:-
- a. NDMA was entrusted by Federal Government to procure and provide Covid-19 related PPEs, Bio-medical equipment and injections/ medicines to Provinces and Federating units for fighting against Covid-19. The items issued during the year 2020 are placed at **Annex F**.
 - b. During calendar year 2020, all efforts were made to upload all stores data to NITB developed National Disaster Decision Support System (NDDSS); however, maturation of the system is in process.
 - c. Enhancement of security arrangements was done by installing fence at NDMA’s H-11 Warehouse.

- d. Enhancement of storage capacity was done by installing 10 Rub Halls in collaboration with WFP at NDMA's H-11 Ware House.
- e. Activation of 3 x backup generators NDMA's I-11 Warehouse.

23. **Advocacy and Awareness**

- a. **Awareness Communication Campaign.** NDMA launched a national campaign to highlight issues regarding gender, GBV, psychosocial, mental health component and disability. The campaign highlighted the importance of psychosocial support during the pandemics like COVID-19. Digital campaign was launched with key messages and animated videos through NDMA official accounts on social media networks of Face book, YouTube, Twitter and Instagram.
- b. **International Assistance.** NDMA with International Assistance is building better prepared communities and enhancing infectious disease prevention, detection and response. NDMA continues to engage with partners through bilateral cooperation and robust foreign assistance focused on joint priorities.

SECTION – IV

DISASTER RISK REDUCTION

24. **Hosting Fourth Session of Governing Council of Asia and Pacific Centre for Development of Disaster Information Management (APDIM).**

Pakistan hosted the Fourth Session of Governing Council of APDIM. During the Session, all the members of the Governing Council unanimously elected Pakistan as Chair and Turkey as the Vice Chair of APDIM Governing Council. After detailed discussions and presentations on various matters and adoption of agenda points, the session was concluded with a vote of thanks.

25. **High-level Expert Consultation on Disaster Information Management.**

Along with the Governing Council Session of APDIM, NDMA hosted a 'High-level Expert Consultation on Disaster Information Management', an international dialogue event focusing on sharing experiences and ideas, highlighting the best practices from various countries and identifying opportunities to collaborate to make Asia and Pacific region more disaster resilient.

26. **Meetings of Strategic Coordination Forum – DM (SCF-DM).**

SCF-DM was established by NDMA and UN to oversee disaster management activities/ interventions, which is co-chaired by Chairman NDMA and UN Resident Coordinator and in a disaster situation, this forum is transformed into a joint decision-making body. In the backdrop of current COVID-19 spread and locust plague in the country, two meetings of SCF-DM were convened with the aim to discuss the current COVID-19 situation in close coordination with Government departments and UN Agencies.

27. **USAID Donation of 200 x Ventilators.**

USAID supported national efforts in fight against COVID-19 pandemic through provision and distribution of 200 x ventilators to public sector health facilities across the country, which also included conducting of specialized trainings for health professionals. These trainings were held at the respective provincial capitals. NDMA along with the

representatives of Chemonics, monitored and inspected the installed ventilators in the provinces.

28. **Enhancement of PMD Weather Forecasting Capabilities**. In order to enhance the capacity and weather forecasting capabilities of PMD, the license subscription has been paid since last 3 years. Same was again done for regular and efficient weather forecasts.

29. **MoUs signed by NDMA**. In order to ensure collaboration in disaster risk management agenda and to support NDMA's efforts against COVID-19 pandemic, following MOUs were signed: -

- a. **MOU with Tear-fund Pakistan**. The core objective of the MoU signed between NDMA and Tear-fund Pakistan was to 'Design Roadmap on Urban Disasters in the context of Solid Waste Management' following the global best practices. Initially the activities are focused on Karachi and Hyderabad in Sindh and later possibilities will be explored to extend the scope of activities across the country. Further, Tear-fund provided 750 PPEs under COVID-19 prevention to Metropolitan Corporation Islamabad (MCI) to support national efforts against COVID-19 pandemic.
- b. **MOU with Pakistan Humanitarian Forum (PHF)**. NDMA signed MoU with PHF which encompasses sharing COVID-19 response, provided by PHF members with an aim to bring NDMA and PHF member INGOs together in COVID response.
- c. **MOU with Reckitt Benckiser (Pakistan) Ltd**. NDMA signed a MOU with Reckitt Benckiser (Pakistan) Ltd to assist in disinfection spray operation being conducted by the NDMA across the country. Under the MOU, Reckitt Benckiser (Pakistan) Ltd agreed to provide men and material for the disinfection spray operations in selected areas of the country.



- d. **MOU with MCI.** The MOU was signed between NDMA and Municipal Corporation Islamabad (MCI) in June, 2020, enabling NDMA to utilize resources from the existing USAR Team under MCI to support in disinfection of government buildings and public areas in ICT and surrounding areas.
 - e. **MOU with Pakistan Science Foundation.** The MOU was signed between NDMA and Pakistan Science Foundation on ‘Carrying out Research on National Disaster’ in May, 2020. The MOU focuses on developing bilateral collaboration to strengthen Pakistan with indigenous solutions through local Research & Development and minimizing dependency on critical imports required during disasters.
 - f. **MOU with Islamic Relief Pakistan.** The MOU was signed between NDMA and Islamic Relief Pakistan (IRP) in March, 2020. The MOU focuses on institutional strengthening, programming and implementation, evidence-based research, and collaborating on raising awareness and involving communities in the decision making process.
 - g. **MoU with Save the Children International (SCI).** NDMA signed MOU with SCI on 8 August 2020 in support for “Emergency Preparedness and Response Initiatives.”
 - h. **MOU with International Rescue Committee (IRC).** NDMA signed MOU with IRC on 8 July 2020 for “Support in Airing and Production of Mass Awareness Campaign.”
 - i. **MOU with Medecins Sans Frontieres (MSF).** NDMA signed MOU with MSF (Belgium, Netherlands and France Missions in Pakistan) on 23 December 2020 in support for “Emergency Preparedness and Response Initiatives.”
30. **Upgradation of Warehousing Facility (I-11, Islamabad) During COVID-19.** NDMA in collaboration with WFP enhanced existing capacity of

NDMA warehouse in Islamabad, especially during the COVID 19 peak, to accommodate the additional load and requirement for cold storage of COVID-19 Testing Kits, VTMs and medical drugs. This was done by providing 6 x High Medical Grade Refrigerators, installation of 7 x Rub Halls, and availability of 10,000 x Plastic pellets for proper storage and stacking of items.

31. **Trainings on DRR, CCA & Early Recovery Need Assessment Guidelines**. Under the UNDP project support, 4x trainings were conducted at the district level, jointly with the NIDM, on “DRR, CCA & Early Recovery Need Assessment Guidelines”. These trainings were conducted in the 4 districts of Sindh, namely, Ghotki, Kashmore, Dadu and Tharparkar during January - February, 2020.

32. **Disinfection Operations**. NDMA carried out an extensive disinfection drive to control the spread of COVID-19 in the country by carrying out the disinfection operations at more than 220 locations including Airports, Railway Stations, Hotels/ Quarantine Centres, Strategic Assets of Pakistan and public buildings including Pakistan Secretariat, PM Office & House, Supreme Court premises, etc. In addition, major area sanitization operations were carried out in hot spots of Islamabad and surrounding.

33. **Visit of High Level Delegation of UN to Quetta**. NDMA coordinated visit of UN Country Representatives/ Heads and UNHC/ RC was planned and successfully conducted for Quetta to assess the COVID-19 situation and determine the needs for subsequent supports. During visit, meetings with Chief Minister Balochistan and Provincial Minters/ Secretaries were also held.

SECTION – V

REGIONAL AND BILATERAL COOPERATION

34. Existing Bilateral Linkages

| Ser | Country | Executing Agency | Title of Instrument | Remarks |
|-----|------------|---|--|---------------------|
| a. | Turkey | Prime Ministry Disaster and Emergency Management (AFAD) | Cooperation Protocol on Disaster Management | Signed on 24 Dec 13 |
| b. | Sri Lanka | Ministry of Disaster Management, Sri Lanka | MoU on Cooperation in the field of Disaster Management | 6 April 15 |
| c. | Kyrgyzstan | Ministry of Emergency Situation of Kyrgyzstan | MoU on Cooperation in the field of Disaster Prevention and Elimination | 21 May 15 |
| d. | Cuba | General National Staff of Civil Defense | MoU on Cooperation in the field of Disaster Management | 5 July 17 |
| e. | Kazakhstan | Committee of Emergency Situations | MoU on Cooperation in the field of Disaster Management | 22 June 18 |

35. Bilateral Linkages in Process

| Ser | Country | Executing Agency |
|-----|-------------|---|
| a. | Afghanistan | Afghan National Disaster Management Authorities (ANDMA) |
| b. | Azerbaijan | Ministry of Emergency Situations, Government of the Republic of Azerbaijan |
| c. | Belarus | Ministry of Emergency Situations of the Republic of Belarus |
| d. | China | Ministry of Emergency Management of China |
| e. | Hungary | National Directorate General for Disaster Management, Ministry of Interior, Hungary |
| f. | KSA | King Salman Humanitarian Aid and Relief Center (KSHARC) |
| g. | Switzerland | Swiss Agency for Development and Cooperation |
| h. | Tajikistan | The Committee of Emergency Situations and Civil Defense |

36. International Conferences and Seminars

- a. **15th Regional Consultative Committee Meeting.** The 15th meeting of the Regional Consultative Committee on Disaster Management (RCC) was organized by Asian Disaster Preparedness Centre (ADPC) and the Government of Thailand through the Department of Disaster Prevention and Mitigation (DDPM) from 15-17 January 2020 with the central theme of “Enhancing Regional Cooperation and Coherence for Resilient and Inclusive Societies.” Pakistan with National Disaster Management Organizations of 17 other RCC member countries participated in the three-day event and discussed milestones, needs, and challenges that member countries are confronted within the implementation of the Sendai Framework, the 2030 Agenda for Sustainable Development and the Paris Climate Agreement.
- b. **Second Meeting of ADPC Coordinating Committee.** ADPC after transformation of its status from foundation to Inter-Governmental Organization ADPC started revising all its Rules and Procedures and formed a new Board of Trustees in which Chairman NDMA was nominated as Member of Board of Trustees from Pakistan. Pakistan provided valuable input in the 2nd Meeting of ADPC Coordinating Committee which was held on 6th October 2020.
- c. **Support to Asian Disaster Reduction Centre (ADRC).** ADRC has 30 members including Pakistan with the mission to enhance disaster resilience of member countries, build safe communities and sustainable development. As per commitment of Government of Pakistan, NDMA contributed to ADRC for supporting its activities.



SECTION – VI

CAPACITY BUILDING

37. **Inland Trainings/ Workshops/ Conferences.** NDMA sent officers to attend and conduct inland Trainings / Workshops/ Conferences as following:-

a. **Inland Government Officials Capacity Building Training.**

Following trainings, workshops and seminars were conducted by NIDM: -

| Courses in 2019 | Location | Date | Participants | | |
|---|------------|-------------------|--------------|-----------|------------|
| | | | M | FM | Total |
| Early Recovery Need Assessment Guideline | Ghotki | 21 - 22 Jan, 2020 | 32 | 1 | 33 |
| Early Recovery Need Assessment Guideline | Kashmore | 23 - 24 Jan, 2020 | 27 | 3 | 30 |
| Disaster Risk Reduction through Climate Change Adaptation | Dadu | 27 - 28 Feb, 2020 | 45 | 5 | 50 |
| Disaster Risk Reduction through Climate Change Adaptation | Tharparkar | 2 - 3 March, 2020 | 25 | 5 | 30 |
| Multi-sector Initial Rapid Assessment | Tharparkar | 21 - 22 Dec, 2020 | 21 | 7 | 28 |
| Multi-sector Initial Rapid Assessment | Badin | 23 - 24 Dec, 2020 | 17 | 7 | 24 |
| Total | | | 167 | 28 | 195 |

b. **Training workshop on coordination GBV & SRH, Muzaffarabad, AJ&K.**

To ensure effective coordination and referral mechanism established at District and central level, NDMA hosted 3 x days training workshop for the Govt. officers of AJ&K and project staff of Mirpur Women Friendly Health Spaces from 27 to 29 October, 2020. The training workshop attended by the representatives from Health, Education, Police, Social Welfare, Population Welfare and District Administration departments of AJ&K.

c. **Training of Tajikistan Officers.**

NDMA organized a training workshop for officials from Tajikistan in the field of Disaster

Management. The workshop consisted of two components; firstly, five days training workshop in Islamabad where participants were provided insight into the theoretical aspects of Disaster Management and during second stage, three days training in the field of emergency search and rescue at Punjab Emergency Rescue Services Academy in Lahore which also included practical exercises on fire and collapsed structure rescue.

Annex 'A'

ISSUANCE OF PPES to PROVINCES AND ARMY AVIATION COMMAND FOR ANTI LOCUST SURVEY AND CONTROL TEAMS

| Ser | Items | Bln | KP | Punjab | Sindh | DPP | Army Avn | Total |
|-----|-------------------------|-------|-------|--------|-------|-------|----------|---------------|
| a. | Protective Suits | 370 | 220 | 354 | 256 | 200 | 20 | 1,420 |
| b. | Face Masks | 7,620 | 4,570 | 7,604 | 6,056 | 4,550 | 100 | 30,500 |
| c. | Goggles | 370 | 220 | 354 | 256 | 200 | 20 | 1,420 |
| d. | Long Shoes | 120 | 70 | 104 | 56 | 50 | - | 400 |
| e. | Gloves | 120 | 70 | 104 | 56 | 50 | 40 | 440 |
| f. | Caps | 120 | 70 | 104 | 56 | 50 | 20 | 400 |
| g. | Frist Aid Kits | 60 | 35 | 52 | 28 | 25 | - | 200 |

**ICU/ PORTABLE VENTILATORS, BI PAP, ELECTROMEDICAL EQUIPMENT,
TESTING KITs & VTMs /SWABs ISSUED IN 2020**

| Items | Distribution | | | | | | | | |
|---|--------------|---------|---------|-------------|--------|--------|---------|---------------|-----------------------------------|
| | Punjab | Sindh | KP | Balochistan | GB | AJ&K | NIH | ICT Hospitals | IH&ITC, Armed Forces / Govt Depts |
| Portable Ventilators | 34 | 25 | 15 | 10 | 12 | 5 | - | 7 | 15 |
| ICU Ventilators | 197 | 174 | 162 | 95 | 20 | 21 | - | 83 | 64 |
| Bi PAP | 238 | 291 | 242 | 130 | 12 | 31 | - | 227 | 36 |
| PCR Testing Kits | 924,942 | 520,528 | 408,880 | 186,288 | 68,748 | 94,928 | 410,266 | 116,672 | 166,804 |
| Nucleic Acid Extraction (Manual) | 606,896 | 154,176 | 168,768 | 115,008 | 36,288 | 66,624 | 36,288 | 67,872 | 75,744 |
| Auto Extraction Reactions | 221,072 | 107,616 | 112,416 | 91,032 | 56,352 | 44,160 | 179,656 | 18,368 | 9,984 |
| VTMs / SWABs | 1,056,000 | 772,200 | 431,000 | 180,000 | 87,550 | 98,000 | 193,000 | 159,200 | 208,800 |
| Bio Safety Cabinets | 8 | 2 | 4 | 2 | 3 | 2 | 2 | 4 | 3 |
| PCR Machines | 6 | 3 | 6 | 4 | 4 | 3 | 2 | 3 | 5 |
| Auto Extraction Machine | 6 | 1 | 2 | 3 | 1 | 3 | 3 | 1 | 1 |
| Tube Magnetic Separation Rack | 24 | - | 8 | 8 | - | 6 | 10 | 1 | 14 |
| Thermal Mixer | 9 | - | 4 | 4 | - | 3 | 4 | 1 | 7 |

Annex 'C'

CONSOLIDATED STATE OF RELIEF PROVIDED DURING MONSOON 2020

| Serial | Items | Sindh | | Balochistan | | KP | | GB | | Total |
|--------|----------------------------|---------|-------------------------|-------------|------|------|-------|---------|--|-------|
| | | GoS | NDMA UN / NGOs / Others | GoB | GoBP | GoGB | NDMA | | | |
| 1 | Tents | 90,031 | 31,500 | 4,750 | 555 | 290 | 1,000 | 128,526 | | |
| 2 | Hospital Tents | 2 | - | - | - | - | - | 2 | | |
| 3 | Blankets / Quilts | 5,300 | 1500 | 4,250 | 695 | 276 | 2,000 | 16,021 | | |
| 4 | Mosquito Nets (Human) | 204,100 | 12,000 | 1,170 | - | - | - | 208,770 | | |
| 5 | Mosquito Nets (Animals) | 43,965 | - | - | - | - | - | 43,965 | | |
| 6 | Plastic Mats | 500 | - | 3,350 | 345 | 600 | - | 4,795 | | |
| 7 | Tarpaulins | - | 11,500 | - | 12 | 70 | 1,000 | 14,032 | | |
| 8 | Kitchen Sets | 2,900 | 100 | 1,550 | 157 | - | 200 | 4,907 | | |
| 9 | Gas Cylinders | - | - | - | 20 | - | - | 20 | | |
| 10 | Jerry Cans | 5,680 | - | 2,250 | 53 | - | - | 8,983 | | |
| 11 | Hygiene Kits | 2,900 | - | 2,150 | - | - | - | 6,260 | | |
| 12 | Iron Bed / Bed / Charpai | 775 | - | 2,966 | 3 | - | - | 3,744 | | |
| 13 | Bed Sheets | 500 | - | - | 3 | - | - | 503 | | |
| 14 | Buckets | - | - | - | 8 | - | - | 8 | | |
| 15 | Mattresses / Sleeping Mats | - | - | 3,000 | - | - | - | 5,000 | | |
| 16 | Pillows | - | - | 3,050 | - | - | - | 3,050 | | |

| | | | | | | | | | | |
|----|---|--------|-----------------------|-----------|-------|-------|-----|---|---|-----------|
| 17 | Pedestal Fan | 500 | - | - | - | - | - | - | - | 500 |
| 18 | Water Coolers / Tanks | 2,355 | - | 37 | - | - | - | - | - | 2,392 |
| 19 | Generators | 2 | - | - | - | - | - | - | - | 2 |
| 20 | De-watering Pumps | 275 | - | - | 11 | 1 | - | - | - | 287 |
| 21 | Life Jackets | 340 | - | - | 20 | - | - | - | - | 360 |
| 22 | Solar Lights | - | - | - | 2,750 | - | - | - | - | 2,750 |
| 23 | Boats with OBMs | 24 | - | 3 | - | - | - | - | - | 27 |
| 24 | Food Packs | - | 10,000 | 1983 | - | 1,378 | 490 | - | - | 199,587 |
| 26 | Water Bottles (1.5 Litres each) | 15,000 | 11,000 | 50,000 | - | - | - | - | - | 76,000 |
| 27 | High Energy Biscuits (MT) | - | - | 375 | - | - | - | - | - | 375 |
| 28 | MRE's (1.3 kg each) | - | 6.5 Tons (5,000 MREs) | - | - | - | - | - | - | 6.5 Tons |
| 29 | Aqua Tabs | - | 50,000 | 1,442,000 | - | - | - | - | - | 1,492,000 |
| 31 | Amoicillin Capsules (250 mg - 100 Unit Packs) | - | 4,000 | - | - | - | - | - | - | 4,000 |
| 32 | Oxytetracycline Eye Drops | - | 500 | - | - | - | - | - | - | 500 |
| 33 | Paracetamol Tablets (500 mg) | - | 10,000 | - | - | - | - | - | - | 10,000 |
| 34 | Soap Bars | - | 10,000 | - | - | - | - | - | - | 10,000 |

Annex 'D'

GOVERNMENT OF PAKISTAN HUMANITARIAN ASSISTANCE TO FOREIGN COUNTRIES

| Items | Syria | Afghanistan | Iraq | Italy | Kyrgyzstan | Kazakhstan | Palestine |
|---------------------|---------|-------------|---------|---------|------------|------------|-----------|
| N/ KN-95 | 50,000 | 75,000 | 50,000 | 50,000 | 5,000 | 5,000 | - |
| Face Mask | 250,000 | 250,000 | 250,000 | 150,000 | - | - | 100,000 |
| ICU Vent VG-70 | - | - | - | - | - | - | 25 |
| BI Pap | - | 50 | - | - | - | - | 100 |
| Gown | 19,300 | 100,000 | 46,500 | - | - | - | - |
| Protective Suit | 27,500 | 60,000 | 15,000 | 50,000 | 5,000 | 5,000 | 10,000 |
| Gloves (Prs) | - | 500,000 | - | - | - | - | - |
| Face Shield | - | 50,000 | - | - | 5,000 | 5,000 | - |
| Digital X-Ray | - | 10 | - | - | - | - | - |
| Oxygen Concentrator | - | 10 | - | - | - | - | - |
| Thermal Gun | - | 500 | - | - | - | - | - |
| Oxygen Cylinder | - | 500 | - | - | - | - | - |
| Goggles | 49,850 | 55,000 | 50,000 | - | - | - | - |
| Shoe Cover | - | 111,610 | - | - | - | - | - |

FOREIGN DONATION RECEIVED IN 2020 (COVID -19)

| Sr. | Country Donor | Items | Quantity |
|-----|----------------------------------|---|-----------|
| 1. | China | N/ KN-95 Masks | 1,421,700 |
| 2. | | Testing kits | 199,400 |
| 3. | | Disinfectant Medical Powder | 100 Ton |
| 4. | | Ventilators All Types | 483 |
| 5. | | Bipap Ventilators | 1337 |
| 6. | | Surgical coveralls / Protective Suits | 140,109 |
| 7. | | Surgical gloves | 406,900 |
| 8. | | Temperature/ Thermal gun / Thermometers | 5,660 |
| 9. | | Face/ Surgical Mask | 3,602,200 |
| 10. | | Goggles/ Face Shield | 190,668 |
| 11. | | Hand sanitizer | 10,000 |
| 12. | | Transdermal Therapeutic Sys | 04 |
| 13. | | Cold Compressed Paste | 21 |
| 14. | | Image Documentation Equip | 6 |
| 15. | | All Temp Measure Sys | 2 |
| 16. | | Medicine | 62,050 |
| 17. | | Defibrillator Monitor | 5 |
| 18. | | Disposable Virus Sampling Tube | 10,000 |
| 19. | Singapore | Protective Suit | 1,290 |
| 20. | | Face Shield | 2,500 |
| 21. | | Face Mask | 28,500 |
| 22. | | Isolation Gown (FOC) | 100 |
| 23. | Turkey | Oxygen Oxygenator | 100 |
| 24. | | N-95 Masks | 20,000 |
| 25. | | Persons protective coverall | 50,000 |
| 26. | | Surgical Face Shield | 100,000 |
| 27. | Saudi Arab | Protection Suit | 1,000 |
| 28. | | Gloves | 5,000 |
| 29. | | Surgical Masks | 5,000 |
| 30. | Japan | Ventilator | 16 |
| 31. | | Ultrasound machine | 4 |
| 32. | | ECG machine | 10 |
| 33. | | Infusion pumps | 50 |
| 34. | | Blood pressure apparatus | 50 |
| 35. | | Syringe pumps | 15 |
| 36. | | Baby Incubators | 3 |
| 37. | Pak High Commission/ UK UK | Eye Safety Wear (Goggles) | 499 |
| 38. | | PPE Kits | 300 |
| 39. | | KN-95 | 1,850 |
| 40. | | Surgical Masks | 200 |
| 41. | | Protective Goggles | 413 |
| 42. | | Paracetamol Tablet | 1,614 |
| 43. | | Gloves | 200 |
| 44. | | Face Shield | 60 |
| 45. | | Hand Sanitizers | 10 |
| 46. | | Protective Suit | 04 |
| 47. | Malaysia | KN-95 | 960 |
| 48. | | Medical Masks | 20,000 |
| 49. | USA | Ventilators | 200 |
| 50. | Canada & Uzbekistan | Medicines | |

Annex 'F'

PPEs ISSUED IN 2020

| Items | Distribution | | Total |
|------------------------|--------------|-----------|------------|
| | Proc | Donation | |
| Boot/Shoe Cover | 741,477 | 273,758 | 1,015,235 |
| Face Mask | 9,176,165 | 9,636,252 | 1,8812,417 |
| Face Shield | 391,600 | 141,577 | 533,177 |
| Gloves | 1,915,051 | 1,507,544 | 3,422,595 |
| Goggles | 1,017,829 | 233,348 | 1,251,177 |
| Gowns | 1,869,305 | 105,635 | 1,974,940 |
| PPE Kit (Box) | 0 | 10,820 | 10,820 |
| Protective Suit | 1,752,118 | 462,782 | 2,214,900 |
| Surgical Caps | 860,507 | 110,592 | 971,099 |



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