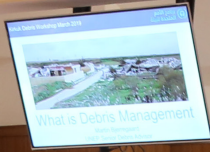


رئاسية جامعة كركوك



Kirkuk University



KIRKUK DEBRIS MANAGEMENT WORKSHOP REPORT

May 2019



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This report was prepared by Martin Bjerregaard and Hassan Partow from UNEP, with inputs from Martijn Dalhuijsen, Ammar Jasim and Najat Abdullah from UNAMI.

1. Introduction

On 27 and 28 March 2019, the Governorate of Kirkuk in collaboration with the University of Kirkuk, and the support of the United Nations Assistance Mission in Iraq (UNAMI) and UN Environment Programme (UNEP), held a Debris Management Workshop at the University of Kirkuk, Iraq.

The purpose of the workshop was to bring together all relevant actors and stakeholders dealing with debris planning, management and implementation with the objective of supporting improved debris management in the Governorate of Kirkuk.

As indicated in the Workshop Concept note (Appendix A), the debris challenges faced by Kirkuk Governorate are different from those in urban centres such as Mosul and Anbar; with damaged houses, municipal buildings and infrastructure being spread out through a largely rural area. Thus, logistics, environmental protection and scheduling of debris works are all aspects that need to factor this specific rural context in debris planning.

2. Objective

The management of debris in the Governorate of Kirkuk is a pressing challenge since the presence of debris on people's properties is hindering their return to rehabilitate and reconstruct their homes. The removal of debris is therefore a prerequisite to the recovery of the conflict affected areas of Kirkuk Governorate.

At the same time, there are opportunities that can be gained from robust and proper debris planning, such as employment generation, cost reduction in subsequent reconstruction works and better environmental management. Consequently, it is critical that those responsible for debris planning are aware of these opportunities.

The primary objective of the debris management workshop was to support local authorities at the district and sub-district level in Kirkuk Governorate to develop debris management plans, which take into account the aforementioned factors as well as bring together key stakeholders that can both contribute to the plan and support its implementation.

The workshop was also a unique event gathering for the first time all relevant parties for the specific purpose of discussing and agreeing on fundamental issues relating to debris management; something that had not happened yet in the Governorate of Kirkuk.

3. Site Visit

Prior to the workshop, a one-day site visit to the heavily damaged villages in Multaqa sub-district was conducted with the Head of Multaqa sub-district. This provided the workshop facilitators and other participants with a better understanding of the key challenges facing debris removal in typically damaged villages. This included:

- Major hindrance that debris poses for returnees to access their damaged homes (currently not possible due to debris) as well as basic services such as water and electricity;
- Very limited return of displaced persons to the damaged villages with only a handful of people starting to rebuild, driven by individual initiative;
- Sand and gravel for reconstruction purchased from Kirkuk is expensive due to transport costs and high raw materials prices;
- The eagerness of the local authorities to expedite debris removal to help facilitate the return of displaced people; and,
- The government is supporting the rehabilitation of basic services and infrastructure (water, electricity, roads and bridges) in the damaged villages but is not involved in debris removal from households.



Photo 1: Typical damage to homes in villages in rural Kirkuk where an estimated 9,400 homes have been destroyed.



Photo 2: UN Team visiting the destroyed Multaqa village with the head of the sub-district



Photo 3: Very few homeowners are returning to rebuild their houses, largely due to presence of debris hindering access and the lack of basic services (water & electricity).

Key data from the site visit include:

- A total of 131 villages in an area of 65km by 7km are extensively damaged with the majority of the buildings demolished to create a buffer zone between the Kurdish Peshmerga and ISIL during the hostilities;
- A total of 9,400 homes have been demolished and are lying in ruin;
- Most of the 20,000 residents of Multaqa sub-district remain displaced since 2014;
- Price for sand/gravel as delivered from Kirkuk is \$200/10m³; and,
- Price for stones/aggregate as delivered from Kirkuk is \$100 - 120/10m³.

4. Workshop Activities

The workshop was opened by the Governorate of Kirkuk, the University of Kirkuk and UN Environment Programme. In his opening statement, Mr. Rakan Al-Jaburi, acting Governor of Kirkuk, emphasised the need for a forward-looking vision involving all key stakeholders in dealing with Kirkuk's debris file which has so far received limited attention, and yet presents a major obstacle for the return of people displaced by the conflict. Mr. Al-Jaburi also underscored the need for a scientific approach in developing cost-effective debris recovery solutions and avoiding creating problems in the future through improper disposal. The need to remove the debris to help communities heal and overcome the pain of the conflict was also stressed. Welcoming remarks were also made by the President of Kirkuk University, and an overview of the objectives and expectations of the workshop was provided by UNEP.



Photos 4 and 5: The workshop, with more than 170 participants, was opened by the acting Governor of Kirkuk, Mr. Rakan Al-Jaburi (left), and the President of Kirkuk University, Dr. Abbas Taqi (right).

The workshop provided a platform for a broad range of discussions concerning debris management in individual districts, sub-districts as well as the Governorate level. The workshop agenda is available in Appendix C.

Key focus areas in the workshop discussions centred around helping participants shape their respective Debris Management Plans, including:

- Realising optimal recycling of debris, whilst recognising not all debris will be recycled due to lack of resources for recycling operations;
- Recognising the need to dispose of debris in an environmentally sound and safe manner;
- Appreciating that using mechanical equipment and contractors for the debris removal works can be quicker yet more expensive than using largely manual labour to support livelihoods through Cash for Work;
- Attention to health and safety of debris labourers and the public from hazards such as Explosive Remnants of War, unstable buildings and hazardous materials within the debris;
- Potential cost savings to be achieved by recycling the debris with crushers locally in the villages thus reducing transportation of debris to dumpsites and reducing the cost of importing raw materials from quarries; and,
- Leadership and commitment by the Governorate and its districts and sub-districts to manage and implement debris recovery works.



Photos 6 and 7: Researchers from Iraqi universities presenting the findings of their debris management studies including on use of recycled rubble in road construction.



Photo 8: Representative of Kirkuk Governorate presenting an overview of the status of damaged villages in Kirkuk governorate and estimated volumes of debris created.

5. Workshop Outcomes

The workshop was well attended with around 170 persons present in the opening morning session, and around 60-70 persons participating over the remaining two days. A wide array of stakeholders from the Governorate administration, conflict-affected districts and sub-districts, Kirkuk University's various engineering and science faculties, UN agencies and international NGOs as well as local interested parties attended the workshop. Around twenty percent (36 persons) of the participants were women. The participants list is included in Appendix D.

The two-day workshop included the following key elements:

Day One

Governor's Address

The first day of the workshop was opened by the Governor of Kirkuk who requested participants to identify sound debris management principles and propose practical recommendations to facilitate the return of displaced persons and ensure adherence to environmental management.

Technical Programme

Following the opening addresses, the rest of the first day was largely focussed on technical presentations by UN Environment and key debris specialists from Iraq.

Some of the key discussion highlights included:

- Debris removal will be an enabler for the return of displaced persons and help facilitate an impactful utilisation of the funds for rehabilitation of basic services provided by the central government in Baghdad to conflict-affected areas;
- Potential contamination of the debris from use of chemical weapons in certain locations was raised as a concern based on research by the University of Kirkuk. However, this information is confidential and cannot be released until approved by the Government;
- A Police representative advised that the police is tasked to monitor the disposal of debris so that it is not dumped in an uncontrolled manner; and,
- Setting up debris transfer stations within the sub-districts to reduce transport requirements.

Day Two

Pre-Meeting

Before the commencement of the second day of the workshop, a meeting was held with the key actors in debris management namely the governorate representatives, Kirkuk University, UNAMI and UNEP. The aim was to deliberate and formulate a set of next actions that can be used as a basis for discussions in the last session of the workshop on the key recommendations that could be endorsed by the workshop.

UNMAS Unexploded Ordinance Management

The opening session of day two was led by UN Mine Action Service (UNMAS) who shared their procedures for the checking, clearance and management of Unexploded Ordinance (UXO) and Improvised Explosive Devices (IEDs) as part of debris removal where they are finalising their procedures with the Directorate for Mine Action, Ministry of Defence and Iraq Security Forces. UNMAS has conducted a pilot project with UNDP for clearance of 53 residential houses in Mosul so should be ready to start in Kirkuk.

For residential buildings there are three main challenges with UXOs and IEDs:

- 1) On the surface of the debris;
- 2) Within the debris; and
- 3) Within the building itself.

The management of debris requires careful control; otherwise the debris can be re-contaminated with debris that has not been cleared, as experienced by UNMAS elsewhere in Iraq. This will be a key issue in a rural village context.

District & Sub-District Presentations

The next session comprised presentations by heads of conflict-affected districts and sub-districts:

Multaqa: Of the sub-district's 36 villages, 26 villages have been completely destroyed and 10 villages suffered extensive damage. There is only one organisation operating in Multaqa which is inadequate given the scale of destruction and there are therefore significant delays in implementation. Request was made to either bring and engage more organisations or train more local people to do the work. Time is of the essence for residents to come back (otherwise they may decide never to return) but debris is a major hindrance. Proposes that each household is provided with USD \$1,000 to help them clear the debris and start the reconstruction.



Photos 9 and 10: The heads of the conflict-affected sub-districts in the Governorate of Kirkuk shared their current debris situation, challenges and ongoing works.

Taza Khoramtu: 24 villages were occupied by ISIL and 16 of these were damaged leading to nearly 2,000 houses being completely damaged. Appreciating that several years are needed to clear all the debris, suggests moving the debris to another location for recycling and thereby help accelerate return of the families. This will also help local communities restart farming which they are dependent on for their livelihoods, as agricultural land currently remains largely abandoned.

Riyad: Total of 160 villages in an area of 850km² of which 12 villages were destroyed generating more than 100,000m³ of concrete debris and equivalent volume of debris from other materials. Furthermore, the villages are heavily contaminated with explosive materials. The debris and military operations have heavily impacted agricultural activities. The removal of the debris is proceeding at very slow pace. Expressed interest in recycling the debris for use in rural road construction, especially as these are unpaved rural dirt roads which can be impassable during the rainy season.

Landfill Selection

Following the lunch break, a brief presentation on a GIS model developed using ArcGIS by the Civil Engineering Department of the University of Kirkuk was presented that can support selection of suitable landfill sites based on multiple criteria such as hydrogeology, capacity, environmental impacts etc. This can be also adapted for use in debris disposal site selection.

Cost-Benefit of Village based debris recycling

In the last session before an open forum plenary on the recommendations from the workshop, the UNEP debris advisor facilitated a discussion on a cost-benefit analysis for understanding whether it is economically worth recycling debris at a village level compared with disposal of all debris.

Workshop Recommendations

The last session of day two was facilitated by UNEP programme manager to discuss key next steps for the management of debris in Kirkuk based on a draft Workshop Recommendations document. Workshop participants endorsed the recommendations which set the road map for the next steps including establishing a Debris Working Group for Kirkuk Governorate. Refer to agreed recommendations in Appendix A.



Photo 11: Group photo

6. Workshop Conclusions

This was a unique opportunity for Kirkuk Governorate, conflict-affected districts and sub-districts and other key actors to come together for two days with the sole purpose of discussing, sharing, learning and developing debris management plans for their respective areas and projects.

A positive momentum emerged from the workshop with delegates eager and committed to embark on robust debris management planning taking into account cost, time, livelihoods and sound environmental management. Next steps are summarised in the Workshop Recommendations document which will be submitted to the Governor of Kirkuk for endorsement and shared with key central government institutions in Baghdad, donors and UN organisations.

Appendix A: Recommendations of the Kirkuk Workshop on Debris Management

The participants of a two-day workshop on debris management held in Kirkuk, Iraq, 27-28 March 2019 and organized by Kirkuk Governorate, the University of Kirkuk and the Ministry of Health and Environment in collaboration with the UN Assistance Mission for Iraq and the UN Environment Programme, agreed on the following recommendations to address the debris challenge in Kirkuk's conflict-affected areas. The recommendations will be shared with the Kirkuk authorities, the central government, and international partners supporting humanitarian and stabilization efforts for their consideration and possible actions for follow-up.

Scope of Work

The six million cubic meters of debris¹ generated by the ISIL conflict from the destruction of approximately 9,400 households will be the primary focus guiding Kirkuk debris management efforts over the short to medium-term (3-5 years). Specifically, debris recovery efforts are to focus on the following conflict-affected areas:

- 1) the completely destroyed sub-district of Multaqa comprising 36 villages, and 99 completely destroyed villages spread across the five sub-districts of Daquq, Dibis, Taza, Riyad, and Rashad (9,409 households), generating about three million cubic meters of debris.
- 2) partially damaged villages in the three sub-districts of Zab, Huwaija and Al-Abassi which have also created an estimated three million cubic meters of debris.

In parallel, a governorate-wide debris management planning process will be initiated to create an integrated debris management system. Once the abovementioned debris recovery efforts in Kirkuk's conflict-affected areas are completed, these should be eventually merged under this larger governorate-wide debris planning framework. (Would it be possible to further elaborate on its interlinkages between these 3 processes, systems and frameworks?)

Objective

Debris recovery efforts will focus at the household level to facilitate the return of 61,830 internally displaced persons² from within Kirkuk Governorate and consolidate the gains from ISIL's defeat. A specific aim of debris management efforts will be to create livelihood and employment opportunities for the returnees.

¹ The Department of Planning of Kirkuk Governorate estimates that two-thirds of the debris is comprised of concrete blocks and one-third of mud bricks.

² Source: IOM Displacement Tracking Matrix, 28 February 2019.

Debris recovery decision-making criteria

Debris recovery approaches may comprise of:

- debris disposal;
- debris recycling; and
- a mixed approach combining both disposal and recycling.

The following key factors should be considered in deciding on the most appropriate approach:

- cost;
- speed;
- livelihood and employment generation opportunities;
- occupational health and safety; and
- natural resource conservation and environmental protection.

Follow-up actions

No.	Action Point	Lead	Months
1	Establish a multi-stakeholder Debris Working Group to lead, plan and coordinate debris recovery efforts with a focus on addressing the debris situation in Kirkuk's conflict affected-areas with immediate actions to be carried out as indicated.	<i>Governorate Debris Working Group</i>	36
2	Carry out material testing of crushed debris for use as recycled material in road construction, block paving and other technically appropriate uses. Recommended uses of recycled debris may include surfacing of unpaved rural roads, irrigation canals lining and construction/rehabilitation of hydraulic infrastructure. Based on testing results of crushed materials, Kirkuk Governorate may decide their use.	<i>Governorate of Kirkuk and University of Kirkuk</i>	9
3	Conduct a rapid debris assessment including mapping of debris quantities, distribution and material types in the conflict-affected areas. This will help inform the prioritisation of debris recovery efforts in damaged villages and identification of cost-effective and environmentally suitable debris transfer and disposal sites.	<i>Governorate of Kirkuk and University of Kirkuk</i>	6
4	Develop cost-benefit modelling scenarios comparing: i) recycling of debris on a District, sub-district and village basis using the Cash for Work approach and a small mobile crusher <i>vis-a-vis</i> ii) dumping the debris safely in suitably designated disposal sites. Recycling scenario to consider cost-benefit of substituting the raw quarry materials (i.e. gravel and sand) with recycled debris materials.	<i>University of Kirkuk and Governorate of Kirkuk</i>	6
5	Develop procedures to deal with unexploded ordnance and improvised explosive devices found in the debris in accordance with the Guidelines of the National Mine Action Authority and the United Nations Mine Actions Service.	<i>Civil Defence</i>	3
6	Implement a debris recycling demonstration project using Cash for Work approach and a small mobile crusher to gain practical experience and draw lessons to help determine its appropriateness and scalability in Kirkuk context.	<i>Governorate with UN agencies and civil society</i>	6

Debris Working Group

Immediate actions to be carried out by the Debris Working Group include:

- 1) Develop terms of reference for the Debris Working Group and appoint a chairman and members of the Group;
- 2) Identify suitable debris transfer and disposal sites based on established criteria;
- 3) Define and agree the legal procedures for gaining house owner approval and permission to remove the debris including some potential demolition;
- 4) Monitor and report debris clearance and disposal activities in the conflict affected areas.
- 5) Formally reach out to potential donors and implementing agencies (e.g. UNDP Stabilization, IOM, NRC) to gauge interest in funding and/or implementing debris recovery projects;
- 6) Prepare an overarching Debris Management Plan for Kirkuk Governorate

Needed Resources

Workshop participants recommend that the Kirkuk Governorate provide seed funding to support the activities of the proposed Debris Working Group. The estimated budget for the implementation of the abovementioned activities is IQD 90 million (USD \$75,000). This does not include the pilot debris recycling project which will need to be budgeted separately.

Workshop participants also proposed that of the IQD 10 billion Iraqi dinars (USD \$8.4 million) allocated by the central government for infrastructure reconstruction in the conflict-affected areas of Kirkuk Governorate, a sub-allotment is earmarked to support debris removal and recycling from households to help facilitate access for returnees. Additional funds could be allocated from the 2017 Petro-dollar account, which were recently freed-up. In addition, governorate authorities may mobilize its fleet of heavy equipment to support debris management activities in the conflict affected areas.

Donors and implementing partners, including humanitarian and stabilization actors (such as UNDP, IOM, NRC, UNMAS, USAID, ECHO and others), are also called upon to assist in debris recovery efforts, including through the procurement of mobile debris crushers for community-based recycling activities that would be implemented in collaboration with local authorities on a rotational basis.

Appendix B: Kirkuk Debris Management Workshop Concept Note

Purpose

The management of debris in the Governorate of Kirkuk will be a key challenge as well as an opportunity in the rehabilitation and reconstruction of areas that were damaged by ISIS and the subsequent military operations.

The objective of this Debris Management Workshop is to assist key stakeholders in the four Districts of the Governorate of Kirkuk (Debas, Hawiga, Kirkuk and Daquq) in their development of debris management plans which considers a range of socio-economic, logistical and environmental factors as well as bringing together key stakeholders that can both contribute to the plan and support implementation.

There will be the opportunity to share current debris management works and plans amongst the workshop participants, hear from ongoing debris works and learn from other similar debris management programmes which have already taken place in Iraq (such as in [Anbar](#), and [Mosul](#)) and in other conflict affected contexts.

Subsequently a session on potential collaboration between the Districts will be facilitated to seek opportunities for the sharing of resources, approaches and experiences.

Background

Kirkuk Governorate suffered extensive damage during the occupation by ISIS and the subsequent military operations. Hawiga District was almost destroyed by ISIS.

Curriculum

The following curriculum is proposed for the Kirkuk Debris Workshop. During the workshop key issues will be discussed to help participants shape their respective Debris Management Plans, including:

- Identification of the problems and the context including the health and safety of debris labourers, legal procedures for debris clearance, hazardous materials such as asbestos and Explosive Remnants of War, burden of debris transportation, unstable buildings and cultural heritage;
- Desired results the debris management plan wants to achieve, including cost-saving and the recycling of building materials;
- Identification of key stakeholders and their roles, needs and responsibilities; and,
- Opportunities for collaboration between the Districts on the planning and implementation of debris programmes.

Funding Awareness

Introduction

The management of debris in the Governorate of Kirkuk will be a key challenge as well as an opportunity in the rehabilitation and reconstruction of areas that were damaged by ISIS and the subsequent military operations.

For this purpose and on the request of the Government of Kirkuk, a Debris Management Workshop is planned by UNAMI and UNEP for late March 2019 to assist key stakeholders in

the four conflict-affected districts of Debas, Hawiga, Kirkuk and Daquq in their development of debris management plans.

Current Demolition & Debris Challenges

Challenges in the demolition of damaged buildings and subsequent debris removal with recycling in the Kirkuk area are not uncommon in debris management from other post-conflict cities in both Iraq and globally:

<i>UXO and IEDs</i>	Unexploded Ordinance and Improvised Explosive Devices is still within the debris and will be uncovered during the works leading to safety risks and delays
<i>Demolition consent</i>	Administrative burden that can lead to delays and separate issues of working 'around' a building not for demolition
<i>Logistics & Transportation</i>	Huge amount of trucking required for the removal of debris and then import of quarry materials for the subsequent reconstruction works – traffic safety, emissions, costs
<i>Recycling Debris</i>	Quality recycled debris requires good sorting and separation only achieved by manual labour and is a time-consuming activity – but benefits in creating quick jobs and providing a recycled construction material

There are systems, procedures, protocols and experiences available to support Kirkuk in overcoming these challenges, which will form part of the planned Debris Workshop in Kirkuk.

Workshop Outcomes

Based on experience of similar debris workshops in Mosul and Ramadi (2018), the outcome from the Kirkuk workshop is envisaged to have motivated Governorate and Municipal authorities into action for debris removal. This momentum should be encouraged with the opportunity to act upon on some of the key conclusions from the workshop such as debris pilot projects and development of debris plans.



Photo 12: Anbar workshop on debris management, November 2018.

Mobilizing Funding

It is proposed that donors and technical partners attending the Kirkuk Debris Workshop of March 2019 are prepared to assist Kirkuk authorities in developing and receiving funding proposals to carry out debris management works. These would all seek to solve the challenges in debris removal and recycling and pave the way for larger scale debris works.

Debris Management Planning for Kirkuk

Governorate and Municipal authorities benefit from having a holistic debris management plan which provides a framework for the debris works to work within. Development of such a Plan is often the first step towards debris management at a higher level. Typical fund request is in the region of US\$20,000.

(Pilot) Debris Removal and Recycling Projects

Removing debris safely with a focus on livelihoods and employment is key to supporting communities affected by the conflict. Mobilizing such communities brings significant benefits to recovery as well as providing direct support to returning homeowners, enabling them to start reconstruction. Debris removal and recycling projects can be implemented in a range of sizes and such pilot projects can help resolve challenges, providing a framework for subsequent debris projects. Typical fund request is in the region of US\$50,000 - \$250,000.

Use of Recycled Debris Materials

To support the end use of the recycled debris materials created from the debris projects, it is common to demonstrate the use of the recycled debris materials in actual (re)construction works such as road rehabilitation. Typical fund request is in the region of US\$50,000.

Appendix C: Workshop Agenda

Wednesday, 27 March 2019	
Time	Theme
09:30	Opening Remarks: - By Governor - By President of Kirkuk University - UN Environment Programme
10:00	Debris Policy: [Government of Kirkuk] - Overview - Challenges to Kirkuk Situation - Government expectations from the Debris Workshop
10:30	What is Debris? [UNEP] - General Information Session - Debris quantifications and locations - Debris Management Options
11:00	Coffee Break and Group Photo
11:30	Debris Research: [University of Kirkuk] - Recycling - Practical Tips - Demonstration
12.30	Lessons in Debris Management: [UNEP] - Examples from Iraq (Mosul, Ramadi) and Syria - Progress on debris removal, recycling and disposal in Iraq
13:00	Lunch
14:00	Debris Management Research by Anbar and Mosul University
15:00	Debris Planning [UNEP] - Key Parameters (Logistics, UXO, Recycling, Debris Sites, etc) - Selection of Debris Options - First steps in debris management planning
16:00	Close of Day

Thursday, 28 March 2019	
Time	Theme
09.30	Debris Risks: [UNMAS] - Remnants of War - Unexploded Ordnances & Improvised Explosive Devices - Demining - Logistics - Hazardous Materials - Health and Safety - Quality Assurance
11.00	Coffee Break
11:30	Presentations by representatives from Debas, Hawiga, Kirkuk and Daquq on: - Current Debris Activities - Debris quantity estimates - Overview of debris recovery and disposal activities; - Define key debris challenges and needs (financial, technical, legal); and, - Municipality vision, objectives and action plan to deal with the debris.
13:00	Lunch
14:00	Next Steps for Debris Management: [UNEP] Discussion and adoption of workshop recommendations
15:00	Awarding of Certificates [UNEP] - By UNAMIDCO and UNEP
15:30	Close of Day

Appendix D: Workshop Participants List

Name	Organization/Department	Phone Number	Email
Shwan Abdullah	UNHCR	7507734444	abdulshw@unhcr.org
Ahmed M. Shuker	HRF	7701237452	ahmed.shuker@hrf.org.uk
Mohammed Fadhil	Middle East for Development & Relief	7703744201	trans722000@gmail.com
Abdulkader Hiran	Medair	07701022262	cash-pa-krk@medair.org
Alasdair Mackie	UNDP	07517401532	alsadair.mackie@undp.org
Ablavi Gladys	UNDP	07501015478	ablavi.gladys.gbenedji@undp.org
Mustafa Mohammed	UNDP	07518743143	mustafa.al-soufi@undp.org
Ahmed Freidoon	Engineering College	07723368351	ahmedfadhil83@gmail.com
Omar Jasim	Engineering College	07700696576	omar.nsaif@yahoo.com
Emmanuel Longo	UNDP	N/A	emmanuel.misla@undp.org
Abdulmuneim Hasan	FUAD	07712689924	fuadiraq1@yahoo.com
Haithem Fawzy	FUAD	07702339891	fuad.x1@yahoo.com
Salah Sabbar	University of Anbar	07810826615	ahmadsala2016@gmail.com
Dr. Abdulamir Hussein	Kirkuk University	07722555948	ameersnz@yahoo.com
Arsen Ahmed	Kirkuk University	07704035699	arsenahmed@uokirkuk.edu.iq
Ahmed Yaha Hgaeab	Iraqi Agricultural Supplier	07702359244	ahmedyahyagaeeb@gmail.com
Saba Fadhel Ahmed	Kirkuk University	07702311550	sabafadhel81@yahoo.com
Mohammed Ayden	Planning Department	07701325357	moayden@yahoo.com
Ali Mahmood	UNDSS	07703724655	mahmood11@un.org
Saad Khorani	UNAMI	07727226767	khorani2@un.org
Zeyad Hussein	UNIDO	07723743957	z.hussein@unido.org
Brwa Othman	Blumont	07701258118	bothman@blumont.org
Zana Omor	Blumont	07701286212	zomor@blumont.org
Sarah Dhurgham	University of Mossul	07703800903	sara.dhurgham@gmail.com
Mohammed Ahmed	Danish Demining Group (DDG)	07723286785	mohammedahmed90zz@gmail.com
Zahraa Thaer	IRC	07706877946	zahraathaer.wahab@rescue.org
Mohamad Abdullah Alnuaimy	UNDP	07702639004	mohamad.alnuaimy@gmail.com
Mohamad Ibrahim	UNDP	07701091800	acericon44@gmail.com
Waleed Tayyar	UNDP	07702659779	im4u_1987@yahoo.com

Name	Organization/Department	Phone Number	Email
Mohammed Noori	UNDP	0770970782	mohammed.noori.civileng@gmail.com
Mohammed Ghatheeth	UNDP	07703712570	mohammedkatheeth86@yahoo.com
Dana Ibrahim	UNDP	07702184056	andazyar88@yahoo.com
Mohammed Chalabi	OCHA	07701303901	chalabim@un.org
Muhannad Rashid	NRC	07709119020	muhannad.rashed@nrc.no
Abdulqahar Qadir	NRC	07712121966	abdulqahar.qadir@nrc.no
Hassan Khalaf Salih	Presidency of Kirkuk University	7702329248	hassanengineer89@yahoo.com
Rafaat Refaat Shkour	Presidency of Kirkuk University	7700932216	rafat1977@yahoo.com
Ayad Fouad Hameed	Engineering College	7702512904	mcsfd2001@gmail.com
Dr. Omer Adel Zaiynal	Engineering College	7731620244	omer.zainal@gmail.com
Dr. Rawand Ihassan Jalal	Engineering College	7708186786	rejnt80@yahoo.com
Mahmood Husain Ali	Engineering College	7701352564	paya2ema@gmail.com
Husain Adel Waly	Mayor of Taza	7702337050	N/A
Mohammed Zaki Abdul Aziz	Engineering College	7702196675	m.zaki@uokirkuk.edu.iq
Bushra Mohammed Amin	Tameem Agricultural Supplies Company	7702359244	N/A
Dr. Mariwan Ridha Faris	Engineering College	07701242676	MRNFARIS63@yahoo.com
Dr. Omer Muhie Eldeen Taha	Engineering College	07722415834	omarmahie@yahoo.com
Dr. Aram Mohammed Raheemm	Engineering College	07735515468	engaram@yahoo.com
Shahin A. Ahmad	Engineering College	07710008207	shahinahmad@hotmail.com
Najat Q. Omar	Civil Engineering	07701928773	naj7engg@uokirkuk.edu.iq
Mohammed Ahmed Husain	Mayor of Riyadh	7701235129	N/A
Dr. Majid Hamed	Engineering College/Civil Engineering	07738336977	majid79@gmail.com
Fidan Tahseen Sedeeq	Engineering College	07702318539	fidansedeeq83@gmail.com
Sundus Abbas	Presidency of Kirkuk University	07710597212	Sundus.abbas@gmail.com

Name	Organization/Department	Phone Number	Email
Muhsin Ramadhan	Agricultural College	N/A	N/A
Husain Ali Asker	Presidency of Kirkuk University	7701371643	N/A
Mohammed Adnan Mohammed	Presidency of Kirkuk University	7701346737	media_un2006@yahoo.com
Laith Sattam H.	Kirkuk University	07701359489	laith-aljumaily2000@yahoo.com
Yahia Mohammed Abdul Qadir	Kirkuk University	07706105523	yahias367@gmail.com
Thamir Mahmood Shouker	Kirkuk University	N/A	N/A
Yassir Muneb Tahir	Kirkuk University	7719448557	N/A
Suzan Ibrahim	Agricultural College	07702595413	susanlaser@yahoo.com
Husain Ali Mohammed	College of Law and Political Science	7806694879	poiuthi2898@gmail.com
Mahmood Fatih	Kirkuk Municipality Department	07700942898	mahmoodwinidawi@yahoo.com
Ali Abdul Razzaq	Department of Environmental Protection and Improvement	07700942898	N/A
Dr. Khamees Nayyef Abdulhaleem	Kirkuk University	07706101826	khmees.civ.str@gmail.com
Muna Siddeq Kider	Kirkuk University	07726482047	muna.kider@yahoo.com; alihuseyin83@yahoo.com
Khalid Mohammed	Kirkuk University	07701303280	N/A
Basher Abdul Salam	Presidency of Kirkuk University	7703783085	N/A
Amena Ibrahim Hasan	Presidency of Kirkuk University	N/A	N/A
Dr. Ezat Niayzi	Kirkuk University	7707556633	ezzatspdq@yahoo.com
Eng. Ammar Sadullah	Kirkuk University	7704520287	N/A
Dr. Fouad Abdullah Mohammed	Engineering College	07703087798	hamedabdullah2003@yahoo.com
Eng. Maryam Mohammed Fatih	Engineering College	07702318882	m-bairakdar@yahoo.com
Eng. Subil Mohammed Younis	Engineering College	07717892361	mimarsumbul@yahoo.com

Name	Organization/Department	Phone Number	Email
Shanga Raof Sadullah	Engineering College	07722369400	baderrawf67@gmail.com
Shahad Omer Namiq	Engineering College	07711630400	shahadomer1@gmail.com
Dr. Walid Salah Alden	Engineering College	07709457062	waleedsalakuddin@gmail.com
Jawad Ziyad Jawad	Kirkuk University	N/A	N/A
Thaeer Sleman Mohammed	Kirkuk University	N/A	N/A
Qays iyden	Kirkuk University	N/A	N/A
Taymoor Awchi	Engineering College/Civil Engineering	07736977098	awchi2002@yahoo.com
Falah M. Ahmed	Engineering College/Civil Engineering	07703850936	falah.mohammed81@gmail.com
Oday Ali Azez	Kirkuk University/Civil Engineering Department	07702397747	odayazez@outlook.com
Dr. Qubad Sabah Haseeb	Kirkuk University/Civil Engineering Department	07705805392	qubad@yahoo.com
Dr. Ali Hussein Abdul Karim	Mech. Eng.	07705100828	alihuseyin@yahoo.com
Sabhan Khalaf Ali	Mayor of Hawija	07725768199	N/A
Walid Isham Aziz	Debas Local Council	07701251019	N/A
Esnaa Ali	Presidency of Kirkuk University	07708405287	N/A
Zaineb Ali	Presidency of Kirkuk University	07708465287	N/A
Mustafa Jamal	Biology Department	07702367071	mustafa07702367071@gmail.com
Louis Fendi Mohammed	Mayor of Rashad and Acting Mayor of Daquq	7701294159	N/A
Hussein Allawi Jadhah	Mayor of Abbasi	7701257632	N/A
Inas Bahaa	Engineering College	07703704728	inasrafed@yahoo.com
Sema Nizam	Engineering College	07726960515	semanizam@yahoo.com
Emad Sedeeq Mohammed	Engineering College	07701081725	emad.s.mohammeduokirkuk@gmail.com
Marwan Ibrahim	Media manager in Kirkuk Government Office	7701306559	N/A
Eng. Dhikra Ahmed Hasan	Agricultural College	7736318623	N/A
Husain Salih	College of Law and Political Science	07727585500	N/A

Name	Organization/Department	Phone Number	Email
Ameen M. Selani	College of Engineering	07702357989	ameen.selami@yahoo.com
Zyad Khalil Nasaif	Kirkuk provincial Council	7701002852	N/A
Dr. Zaki Mohammed Hassan	Mosul University	7702338212	zekigeologist@yahoo.com
Wesam Khamis Hamad	Al Multaqa Local Council	7702356792	N/A
Kahtan Asker Baqi	Presidency of Kirkuk University	7704028474	kahtanasker71@gmail.com
Karam Ramiz Wastin	Kirkuk Government Office	7701255667	karam.wastin@gmail.com
Niyaz Fadhel Ahmed	Garmiyah University	07701909001	niazfadhil@garmian.edu.krd
Alaz Ahmeed YAS	Hawiga Technical Instituted	07817627079	alaaalyass85@gmail.com
Enas Kais Naym	Engineering College	07707984403	eng.enas_2997@yahoo.com
Sabah Miza	Oxfam	07701300122	sali@oxfam.org.uk
Tewodros Woldegiorgis	IOM	07510856592	twoldegiorgi@iom.int
Diyar Azad Mohammed	IOM	0770125186	DIMOHAMMED@iom.int
Marwa Adeel	IOM	17708663591	MAADIL@iom.int
Salah Saleh	IOM	07702307578	sasaleh@iom.int
Ahmed Alhamadiny	N/A	N/A	N/A
Sameem Mohamad	Kirkuk Government Office	07707520461	N/A
Martijn Dalhuijsen	UNAMI - DCO	07882534312	dalhuijsen@un.org
Emad Ahmad Yas	Ministry of Education	07804081017	em451475@gmail.com
Hawry Ali Jinar	College of Engineering	07708186757	hawriali@yahoo.com
Rana Abdul Majid Hasan	College of Engineering	07705118898	ranamajeed90@yahoo.com
Samya Hana Daliya	College of Engineering	07703781959	samia_daniel@yahoo.com
Dr. Ali Ihssan salah Alden	College of Engineering	07721402127	dr.ali.ihssan.salahaldin@gmail.com
Anas attallah Ali-Shoshan	College of Engineering	07715120089	anas.atilla@uokirkuk.edu.iq
Ammar Algburi	College of Engineering	07732800920	kirkukgeology@gmail.com
Qaysar Talal	Presidency of Kirkuk University	07706672935	N/A

Name	Organization/Department	Phone Number	Email
Ali Abdullah	Presidency of Kirkuk University	07702371108	N/A
Abbas Mohammed Ismael	College of Engineering	07702966475	abbaskucuk1@uokirkuk.edu.iq
Eng. Saad	Kirkuk University	N/A	N/A
Baidaa Jasim	Kirkuk Government Office	N/A	N/A
Bassad Wahab	Kirkuk Government Office	N/A	N/A
Guldan Hamdi	N/A	N/A	N/A
Zeynep Teymur	N/A	N/A	N/A
Abdulmageed Mohamed	N/A	07705124642	abd-ch2006@yahoo.com
Baraa Thaar Kamel	N/A	N/A	eng-baraa86@yahoo.com
Dr. Mohammed Jawad Zainal Abdeen	College of Engineering	N/A	mehemet80@gmail.com
Cheland A. Adslan	College of Engineering	N/A	N/A
Filip Cerny	Relief International	07722646403	filip.cerny@ri.org
Ali M. H.	Kirkuk Chief Police Assistant	07701309652	ali-hsyn@yahoo.com
Eng. Selda Saeed Yaseen	College of Veterinary	N/A	seldabakar33@gmail.com
Maan Mohammed Ibrahim	Kirkuk Provincial Council	7702393487	N/A
Wisam Khadhim	Presidency of Kirkuk University	N/A	N/A
Huda Fahad Ali	Presidency of Kirkuk University	7729904138	N/A
Aziku Santos	OCHA	07511354238	santus@un.org
Mohamad Wahid	UNAMI	07701372287	wahidm@un.org
Sarah Bahzad	Science College	07512381349	sara.bahzad@hotmail.com
Tahseen Ahmad Tahsen	N/A	07701219659	tahseen444@gmail.com
Omed Akber Abbass	N/A	07705652700	omedakber@gmail.com
Sarmad Kamal Fakhruddin	N/A	07719323246	sarmadfakhruddin@gmail.com
Ammar Ramadham Ali Algburi	N/A	07732800920	kirkukgeology@gmail.com
Saba Fadhel Ahmed Ali JAF	N/A	07702311550	sabafadhel81@yahoo.com
Tahseen Ibrahim Ali	N/A	N/A	N/A

Name	Organization/Department	Phone Number	Email
Alawy Mohammed Ibrihim	Presidency of Kirkuk University	7704044443	N/A
Qahtan Mahmood Husain	Kirkuk Government Office	7701090262	N/A
Aiman A. Ali	Kirkuk Health	07700355644	N/A
Mustafa Nadhila	Kirkuk Sport	7728981000	N/A
Nishteman Fatah Amin	Kirkuk Government Office	07708905959	N/A
Omer Mohammed Habib	Law College	07723404481	N/A
Dr. Hashim Husain Ali	Law College	07705064062	N/A
Ahmed Hameed fahad	College of Law and Political Science	07723103188	N/A
Ali Abdulhadi	Presidency of Kirkuk University	07707521206	N/A
Mohammed Sh. Ahmed	Investor	07901111136	alkubaisi.moh@gmail.com
Ammar Fawzi	Presidency of Kirkuk University	07717146534	ammar724@yahoo.com
Dr. Mahmood A. M. Almufarji	Presidency of Kirkuk University	07701224471	drmahmoud_2006@yahoo.com
Mohammed Mahmood Abdullah	Education College	7702323580	N/A
Haydar Muffak	Science College	7726744155	memo.master88@yahoo.com
Samer Mahdi	Science College	7700964002	N/A
Ibrahem Shuga Alyas	Graduate from Technology College	7713520313	abab5973@gmail.com
Esraq Abdul Hadi	College of Law and Political Science	7703710770	N/A
Hassan Abedl Nassif	Mayor of Multaqa and acting mayor Of Debas	0770322728	N/A
Aliya Hamad Hassan	Chemistry Sciences College	07806646349	abab5873@gmail.com
Najat Abdullah	UNAMI DOCO	07706701389	abdullah44@un.org
Ammar Jasim	UNAMI DOCO	07706701748	jasim@un.org



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