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## SCOPE OF SERVICES

### Lumberjack Services for Emergency Sanitation Cutting

#### 1. Rationale and Objectives:

The existence of dead, dying, pest-infested, typhoon-damaged trees is a crucial component of a dynamic forest ecosystem, influenced by various biotic and climatic factors. The presence of these may pose danger to lives and properties which may be exacerbated by natural disasters like typhoons, heavy rains, forest fires and other human activities within the forest.

To address the issues, hazards and danger related to these trees, current strategies focus on sanitation cutting and tree retrieval operations, particularly for typhoon-fallen trees. These efforts aim to achieve the following objectives:

- 1.1 Control the spread of the infestation/infection to the healthy trees;
- 1.2 Prevent untoward incidents to occur arising from falling branches and dead trees specifically during inclement weather conditions;
- 1.3 Eliminate or reduce breeding grounds of pathogens that infest/infect healthy trees;
- 1.4 Create open spaces for natural regenerations to survive and grow;
- 1.5 Enhance the environment's visual appeal by removing unsightly dead trees and abandoned logs; and
- 1.6 Recover and possibly utilize wood portions derived from the cut and retrieved trees, if means are possible.

#### 2. Scope of Work

*2.1 Roles and Responsibilities of the Lumberjack Services for the Emergency Sanitation Cutting shall cover the following:*


- 2.1.1 Provide the necessary manpower, equipment, tools, supplies and other materials necessary to carry out the sanitation tree cutting of identified trees outlined in Table 1 and Table 2, as well as the emergency cutting of up to thirty (30) priority trees deemed to be an immediate threat to public safety during and after disasters in a prompt and efficient manner.
- 2.1.2 Ensure that the sanitation cutting is done in accordance with the conditions specified in the Tree Cutting Permit issued by DENR-CAR;
- 2.1.3 Ensure that the emergency tree cutting and retrieval operations adhere to the conditions outlined in the Emergency Tree Cutting Permit issued by the LGU through the CEPMO.;



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- 2.1.4 Follow all safety standards and procedures during the sanitation tree cutting, including the use of safety harnesses, gloves, goggles, and hard hats;
- 2.1.5 Adhere to safety standards and procedures during the emergency tree cutting and retrieval operations, including the use of safety harnesses, gloves, goggles, emergency warning devices, and hard hats;
- 2.1.6 Remove tree tops and branches before cutting the main trunk to ensure safety.
- 2.1.7 Cut the tree trunk into segments to prevent harm to individuals, surrounding vegetation, and structures.
- 2.1.8 Cut felled trees into shorter log lengths as directed by JHMC Foresters or the Inspectorate Team. Logs suitable for lumber should be between six (6) and twelve (12) feet in length, while logs for firewood should not exceed two (2) feet.;
- 2.1.9 Do removal of the tree barks as part of freeing the logs from all pests and other pathogens embedded therein;
- 2.1.10 Spraying of the debarked logs including the removed barks with green label insecticide to exterminate any pest/pathogen embedded therein;
- 2.1.11 Undertake slicing of the debarked logs suitable for lumber into smaller sizes as instructed by the JHMC Foresters and/or the Inspectorate Team;
- 2.1.12 Gather all barks and other wood wastes generated from the operation and dispose the same in an area to be designated by the JHMC Foresters and/or the Inspectorate Team;
- 2.1.13 Conduct hauling and delivery of the logs derived from the operation to the JHMC holding area and/or to CENRO Baguio compound for safekeeping and proper disposition as instructed by JHMC Foresters and/or the Inspectorate Team;
- 2.1.14 Conduct the sanitation cutting and hauling operations within the prescribed period in the Tree Cutting Permit issued by the DENR CAR.
- 2.1.15 Ensure to undertake the sanitation cutting and hauling of logs always with the supervision /monitoring of JHMC Foresters and/or at least two (2) representatives of the Inspectorate Team;
- 2.1.16 Take responsibility for the health and safety of its own workers involved in the sanitation cutting;
- 2.1.17 Take responsibility for the repair and/or restoration of any loss or damage to property/ies that might be incurred during the conduct of the sanitation cutting;
- 2.1.18 Ensure that ALL chainsaws to be used have valid permits issued by the DENR CENRO Baguio City;
- 2.1.19 Shall not hold JHMC accountable for any injury /damage and/or loss of lives that might be incurred during the conduct of the sanitation cutting.

**Table 1. Tally of Identified Trees Posing Imminent Danger to Public Safety**


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**Inventory of Twenty-One (21) dead trees affected by development within the John Hay Special Economic Zone**

Tree No.	DBH (cm)	Merchantable Height(m)	Volume	Status	Remarks	Location
1	21	8	0.18	Dead	Cutting	CCA
2	27.6	7	0.27	Dead	Cutting	CCA
3	29.8	7	0.32	Dead	Cutting	CCA
4	25.3	6	0.20	Dead	Cutting	CCA
5	59.6	9	1.63	Dead	Cutting	CCA
6	58.5	7	1.22	Dead	Cutting	CAP
7	66.2	7	1.57	Dead	Cutting	CAP
8	100	6	3.07	Dead	Cutting	Gate 1 (Ayala entrance)
9	52.2	6	0.84	Dead	Cutting	Loakan Road
10	44	7	0.69	Dead	Cutting	Loakan Road
11	42	6	0.54	Dead	Cutting	Loakan Road
12	49	9	1.10	Dead	Cutting	VOA
13	65	6	1.30	Dead	Cutting	VOA
14	69.07	8	1.95	Dead	Cutting	VOA
15	70.98	12	3.09	Dead	Cutting	VOA
16	33.1	14	0.78	Dead	Cutting	VOA
17	47.75	13	1.51	Dead	Cutting	VOA
18	85.94	6	2.26	Dead	Cutting	VOA
19	57.3	15	2.52	Dead	Cutting	VOA
20	73.21	4	1.10	Dead	Cutting	VOA
21	66.84	4	0.91	Dead	Cutting	VOA
<b>TOTAL</b>			<b>10.39</b>			

*Table 2: Tally of Benguet pine trees that are affected by the Construction of the JHMC Wastewater Treatment Plant*

Tree No.	DBH (cm)	Merchantable Height(m)	Total Height (m)	Status	Use	Location	Remarks
1	57.3	17	19	2.91	lumber	JHMC Office	Live
2	29.29	8	9	0.35	firewood	JHMC Office	Live
3	54.43	12	14	1.82	lumber	JHMC Office	Live
4	13.37	1	3	0.01	firewood	JHMC Office	Dead, Rotten
5	56.98	13	14	2.16	lumber	JHMC Office	Live
6	70.03	10	12	2.51	firewood	JHMC Office	Dead, Rotten

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7	51.57	20	21	2.72	lumber	JHMC Office	Live
8	51.25	22	24	2.95	firewood	JHMC Office	Dead
9	57.3	15	16	2.52	lumber	JHMC Office	Live
10	59.21	25	27	4.48	lumber	JHMC Office	Live

**2.2 Roles and Responsibilities of JHMC**

- 2.2.1 Provide assistance in locating identified trees posing danger to public safety;
- 2.2.2 Provide security assistance when deemed necessary to the pertinent tasks;
- 2.2.3 Be in charge of the application and processing of the Tree Cutting Permit from the concerned government agencies;
- 2.2.4 Be in charge with the convening of the Inspectorate Team from various agencies for the supervision and monitoring of the sanitation and emergency cutting activities;
- 2.2.5 Completion of pertinent reportorial requisites to the DENR – CAR and other concerned stakeholders;
- 2.2.6 Provide the Inspectorate team with hard hats during the monitoring activities; and
- 2.2.7 Draft the necessary reports pertinent to the compliance with Tree Cutting Permit conditions and have the same be approved by the Inspectorate Team


**3. Expected Outputs**

The contractor should render its services on the agreed schedules / timelines covering all areas and materials identified in accordance with issued Tree Cutting Permit and in accordance with the project Scope of Services from concerned government agency (DENR-CAR)

**4. Contract Duration**

The contract duration shall be effective for eight (8) months reckoned from the issuance and acceptance by the contractor of the Purchase / Job Order from JHMC until the completion of the delivery of the logs derived from the operation to the JHMC holding area and/or to CENRO Baguio compound for safekeeping and proper disposition and subject to extension, when circumstances are warranted.

Noting however, that the commencement of lumberjack works is highly dependent on the issuance and approval of the Tree Cutting Permit from the DENR-CAR.

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**5. Mode of Payment**

5.1 The contractor is required to provide JHMC with a Billing Statement or Statement of Account detailing the completed work once all items within the Scope of Services have been fulfilled.

5.2 The final payment will be processed only upon the satisfactory completion of all tasks outlined in the Scope of Services, which includes addressing all listed dead Benguet pine trees in Table 1 and Table 2 on a lot basis.

5.3 The contractor must furnish JHMC with a Billing Statement or Statement of Account reflecting the emergency cutting operations carried out based on actual work performed (in the event of calamities or emergency).

5.4 Following a thorough post-inspection and evaluation, JHMC will issue a Certificate of Completion and Acceptance to signify the successful conclusion of the project.

For your approval.