DERIVATIONS OF HAULING UNIT COST/AGGREGATES PRODUCTION UNIT COST

Truck Rental (PhP/day)	5,672.00	
Payloader Rental (PhP/day)	6,424.00	
Actual Operating Hours Per Day	6.00	hrs
Rate of Labor (PhP/day)	280.00	
Working Hours Per Day	8.00	hrs
Actual Working Hours Per Day (labor)	7.00	hrs

	Actual Working Hours Per Day (labor)							
1 Screeni	ng & Stockpiling Productivity							
a)	Mechanical Production of Aggregates							
	Assume Volume of Unprocess Materials, Volume			12.00	cu.m			
-	Loader Bucket Capacity			1.50	cu m			-
	Loader Effeciency			83.00%	cu.m	1.25		
	Fine Aggregates, FA	60%	of unproces	ed volum	e			-
	Volume of Fine Aggregates			7.20				
	Coarse Aggregates, CA	30%	of unproces					
	Volume of Coarse Aggregates			3.60				
_	Waste	10%	of unproces	ed volum	e			
	For Fine Aggregates							
	No. of Cycle [volume / (bucket capacity x efficiency)]			c.004		9.64	cycles	
	Approximate Screening Time/Cycle			say			minute/c	ucle.
	Screening Time (# of cycles x screening time/cycle)						minutes	Juic
	Approximate Time to Stockpile Volume of Screened FA		0.69	min/cu.m			minutes	
	Total Time Elapsed						minutes	
	For Coarse Aggregates							
	Waste Volume from Screening of Fine Aggregates					4.80		
	No. of Cycle [waste volume / (bucket capacity x efficiency)]						cycles	ļ
	An annula sta Casa ania a Tima (Cast			say			cycles	1
	Approximate Screening Time/Cycle Screening Time (# of cycles > corecepting time/cycle)						minute/c	ycle
	Screening Time (# of cycles x screening time/cycle) Approximate Time to Stockpile Volume of Screened CA					4.00	minutes minutes	
-	Removal of Waste	-			\vdash		minutes	-
	Total Time Elapsed						minutes	-
1	Combine Time of Production of Aggregates					22.46	minutes	
				say		23.00	minutes	
	Therefore, Hourly Production							
	Fine Aggregates]	18.78		
	Coarse Aggregates		ļ			9.39	cu.m	
			ļ					
	Daily Output of 1 Payloader and 2 Screens from Given Source					112.70		
	Fine Aggregates (hourly production x operating time of payloader)					56.35		
_						50.55	cu.m	
	Coarse Aggregates (hourly production x operating time of payloader	, 						
					aba	57.00	005 011 0	
	Coarse Aggregates (Yourly production x operating time of payloade Time Aggregates Production Unit Cost (payloader rental / daily outp Coarse Aggregates Production Unit Cost (payloader rental / daily outp Coarse Aggregates Production Unit Cost (payloader rental / daily output)	ut)			PhP PhP		per cu.m per cu.m	
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2 Aggreg	The Aggregates Production Unit Cost (payleader rental / daily outgo Coarse Aggregates Production Unit Cost (payleader rental / daily out Manual Production of Aggregates/Boulders Manual Production of Aggregates/Boulders For Fine Aggregates Approximate Time to Screen & Stackpile 1 cum FA Outgut of 1 Latorer in cu m/day (working hours / capacity) Fine Aggregates Production Unit Cost (abor rate / daily out for Coarse Aggregates Approximate Time to Screen & Stackpile 1 cum FA Outgut of 1 Latorer in cu m/day (working hours / capacity) Fine Aggregates Production Unit Cost (abor rate / daily out for Coarse Aggregates Production Unit Cost (abor rate / daily out for Coarse Aggregates Production Unit Cost (labor rate / daily to of Cycle For Day (working hours / time spent per cycle) Output of 1 Laborer in cu m/day (working hours / capacity) Coarse Aggregates Production Unit Cost (labor rate / daily for Bouders Reprodunte Time to Stockpile 1 cu m Bouders Output of 1 Laborer in cu m/day (working hours / capacity) Coarse Aggregates Production Unit Cost (labor rate / daily components Time to Stockpile 1 cu m Bouders Output of 1 Laborer in cu m/day (working hours / capacity) Bouder Production Unit Cost (labor rate / daily output) tee Load Capacity Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Sake, Time Time of Laborer (in Quinng Astance / speed)	iput)	5.00	mins	Рлр Рлр Рлр Рлр Рлр Рлр Рлр Осгос	114.07 114.07 1.00 7.00 0.550 0.33 0.451 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.450 0.0000 0.00000 0.0000 0.0000 0.000000	per cu.m hrs/cu.m per cu.m/day per cu.m/day	2 m y
2 Aggreg	The Aggregates Production Unit Cost (payleader rental / daily outp Course Aggregates Production Unit Cost (payleader rental / daily out Course Aggregates Production Unit Cost (payleader rental / daily out Manual Production of Aggregates/Roulders For Fore Aggregates Aggregates Production Unit Cost (pabor rate / daily out For Aggregates Production Unit Cost (pabor rate / daily out For Aggregates Production Unit Cost (pabor rate / daily out For Course Aggregates Aggregates Production Unit Cost (pabor rate / daily out For Course Aggregates Disciple 1 our M FA Aggregates Production Unit Cost (pabor rate / daily out For Course Aggregates Disciple 1 our M FA Aggregates Production Unit Cost (pabor rate / daily out For Course Aggregates Production Unit Cost (pabor rate / daily out of 1 Laborer in our/day (# of cycles per day x capacity) Course Aggregates Production Unit Cost (pabor rate / daily for Bouders Aggregates Production Unit Cost (pabor rate / daily output of 1 Laborer in our/day (# of cycles per day x capacity) Course Aggregates Production Unit Cost (pabor rate / daily for Bouders Aggregates Unit Cost (pabor rate / daily output) ates Traight Cost from Source to Job Site Load Capacity Average Seed with Load (rotify jabors 12% grade dirt road) Aggregates Loading Time Aggregates Loading Time Aggregates Loading Time Aggregates Loading Time Aggregates Loading Time Aggregates Loading Time Time of Unidod Trip (bauling distance / speed) Time of Unidod Trip (bauling distance / speed)	iput)	5.00	mins	Рлр Рлр Рлр Рлр Рлр Рлр Рлр Осгос	114.07 114.07 1.00 7.00 0.55 0.33 3.03 3.03 3.03 3.03 3.03 3	per cu.m hrs/cu.m per cu.r per cu.r hrs hrs hrs hrs hrs cu.m/day per cu.r hrs hrs hrs hrs hrs hrs hrs hrs hrs hr	2 m y
2 Aggreg	The Aggregates Production Unit Cost (payleader rental / daily outgo Coarse Aggregates Production Unit Cost (payleader rental / daily out Manual Production of Aggregates/Bodders for Fine Aggregates Aggregates Production Unit Cost (payleader rental / daily out payleader of the Stressen & Stockpile 1 cum FA Output of 1 Laborer in cum/day (working hours / capacity) Fine Aggregates Aggregates Production Unit Cost (dator rate / daily out for Coarse Aggregates Production Unit Cost (dator rate / daily out for Coarse Aggregates Aggregates Production Unit Cost (dator rate / daily out for Coarse Aggregates Aggregates Production Unit Cost (dator rate / daily output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Output of 1 Laborer in cum/day (end regions per type) Bautker Production Unit Cost (labor rate / daily output) End Cost for Source to Job Sile Load Capacity Average Seed without Load Approximate Loading Time Approximate Loading Time Approximate Loading Time Approximate Loading Time Approximate Loading Time Approximate Loading Time Approximate Sixe (regin) Time of Loaded Trip (bauling distance / speed) Time of Loaded Trip (bauling distance / speed)	iput)	5.00	mins	Рлр Рлр Рлр Рлр Рлр Рлр Рлр Осгос	114.07 104.07 100 100 100 100 100 100 100 1	per cu.m hrs/cu.m per cu.m/day per cu.r hrs cycle cu.m/day per cu.r hrs cycle cu.m/day per cu.r hrs cycle cu.m/day per cu.r hrs hrs hrs hrs hrs hrs hrs hrs hrs hr	2 m y
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2 Aggreg	The Aggregates Production Unit Cost (payleader rental / daily outp Coarse Aggregates Production Unit Cost (payleader rental / daily outp Coarse Aggregates Production Unit Cost (payleader rental / daily out Manual Production of Aggregates/Boulders For Fine Aggregates Aggregates Production Unit Cost (payleader rental / daily out payled of 1 Laborer in cum/day (working hours / capacity) Fine Aggregates Production Unit Cost (pabor rate / daily out for Coarse Aggregates Approximate Time to Screen & Stockpile 1 cum FA Aggregates Production Unit Cost (pabor rate / daily out for Coarse Aggregates Approximate Time to Screen Na Stockpile 1 cum FA Aggregates Production Unit Cost (pabor rate / daily for Boudders Aggregates Production Unit Cost (pabor rate / daily coarse Aggregates Production Unit Cost (pabor rate / daily for Boudders Aggregates Unit Cost (pabor rate / daily output) Extern For Data To Sarce to Job Sile Load Capacity Aggregates Unit Cost (pabor rate / daily output) Extern Friegel Cost from Sarce to Job Sile Load Capacity Aggregates Unit Cost (pabor rate / daily output) Extern Friegel Cost from Sarce to Job Sile Load Capacity Aggregates Unit Cost (pabor rate / daily output) Extern Friegel Cost from Sarce to Job Sile Load Capacity Aggregates Unit Cost (pabor rate / daily output) Extern Friegel Cost from Sarce to Job Sile Load Capacity Aggregates Unit Cost (pabor rate / daily output) Extern Friegel Cost from Sarce to Job Sile Load Capacity Aggregates Unit Cost (pabor rate / daily output) Extern Friegel Cost from Sarce to Job Sile Load Capacity Aggregates Unit Cost (pabor rate / daily output) Extern Friegel Cost from Sarce to Job Sile Load Capacity Friegel Cost from Sarce to Job Sile Load Capa	iput)	5.00	mins	Рлр Рлр Рлр Рлр Рлр Рлр Рлр Осгос	114.07 114.07 100 100 100 100 100 100 100 100 100 1	per cu.m hrs/cu.m hrs/cu.m/day per cu.r hrs hrs per cu.r hrs hrs/cu.m/day per cu.r hrs hrs hrs/cu.m/day per cu.r hrs hrs/cu.m/day per cu.r hrs hrs hrs/cu.m/day per cu.r hrs hrs hrs/cu.m/day per cu.r hrs hrs hrs hrs hrs hrs hrs hr	2 m y
2 Aggreg	The Aggregates Production Unit Cost (psyloader rental / daily outp Course Aggregates Production Unit Cost (psyloader rental / daily out Course Aggregates Production Unit Cost (psyloader rental / daily out Manual Production of Aggregates/Rouldors For Fine Aggregates Aggregates Production Unit Cost (psyloader rental / daily out for Course Aggregates Aggregates Production Unit Cost (psyloader rental / daily out Fine Aggregates Production Unit Cost (psyloader rental / daily out For Course Aggregates Aggregates Production Unit Cost (psyloader rent / daily out For Course Aggregates Aggregates Production Unit Cost (psyloader rent / daily out For Course Aggregates Aggregates Production Unit Cost (psyloader rent / daily out For Course Aggregates Aggregates Production Unit Cost (psyloader rent / daily out For Bouders Aggregates Production Unit Cost (psyloader rent / daily out for Bouders Aggregates Production Unit Cost (psyloader rate / daily for Bouders Aggregates Production Unit Cost (psyloader rate / daily Cost for Bouders Aggregates Production Unit Cost (psyloader rate / daily Cost for Bouders Aggregates Production Unit Cost (psyloader rate / daily Cost for Bouders Aggregates Production Unit Cost (psyloader rate / daily Cost for Bouders Aggregates Production Unit Cost (psyloader rate / daily Aggregates Psyloader for Bouder for Psyloader Psyloader Aggregates United Tring Gauder (psyloader rate / daily output) Aggregates Evolution Load Aggregates Psyloader Jost Load Aggregates Psyloader Jost Load Aggregates Psyloader (psyloader syloade) Time Spent pr Cycle (Tring) Aggregates Psyloader Spent (Tring Dailing distance / spend) Time Spent pr Cycle (Tring)	iput)	5.00	mins	Php Php Php Php Php Or Or Or Php	114.07 1.00	per cu.m hrs/cu.m cu.m/day per cu.r hrs hrs hrs hrs hrs cu.m/day per cu.r hrs/cu.m km/hrs hrs hrs hrs hrs hrs hrs hrs hrs hrs	2 m y
2 Aggreg	The Aggregates Production Unit Cost (payleader rental / daily outgo Coarse Aggregates Production Unit Cost (payleader rental / daily out Coarse Aggregates Production Unit Cost (payleader rental / daily out outgo of 1 tabers in curved and table of taber set of table of Approximate Time to Scene & Stackple 1 curn FA Outgot of 1 tabers in curved ay (working hours / capacity) Fine Aggregates Production Unit Cost (abor rate / daily out for Coarse Aggregates Approximate Time to Stackple 1 curn FA Outgot of 1 tabers in curved ay (working hours / capacity) Fine Aggregates Production Unit Cost (abor rate / daily out for Coarse Aggregates Approximate Time to Stackple 1 curn CA Taol Time Engane No. of Cycle Per Day (working hours / time spent per cycle) Output of 1 taberer in curveday (working hours / capacity) Coarse Aggregates Production Unit Cost (abor rate / daily out for Bouders Approximate Time to Stackple 1 curn CA Taol Time Engane No. of Cycle Per Day (working hours / time spent per cycle) Output of 1 taberer in curveday (working hours / capacity) Bauder Production Unit Cost (Jabor rate / daily output) Average Speed without Load (motor 12% grade dir road) Average Speed without Load Approximate Loading Time Approximate Stack Time Time of Loaded Tip (hualing distance / speed) Time of Loaded Tip (hualing distance / speed) Time Spent per cycle (Tip) No. of Cycle Per Day (working hours / time spent per cycle) Ataling Cost of Aggregates (motor 12% grade per cycle) Time of Loaded Tip (hualing distance / speed) Time Spent per cycle (Tip) No. of Cycle Per Day (working hours / time spent per cycle) Ataling Cost of Aggregates (motor and 7 # of cycles per day)	iput)	5.00	mins	Рлр ² Рлр ² Рлр ² Рлр ² Рлр ² Соболого соб	114.07 1.00	per cu.m. hrs/cu.m. cu.m/day per cu.m. hrs hrs hrs cu.m/day per cu.m. hrs hrs hrs hrs hrs hrs hrs hrs cycle per cu.m. hrs hrs hrs hrs hrs hrs hrs hrs hrs hrs	2 m y
2 Aggreg	The Aggregates Production Unit Cost (payleader rental / daily outgo Coarse Aggregates Production Unit Cost (payleader rental / daily out Coarse Aggregates Production Unit Cost (payleader rental / daily out outgo of 1 tabers in curved and table of taber set of table of Approximate Time to Scene & Stackple 1 curn FA Outgot of 1 tabers in curved ay (working hours / capacity) Fine Aggregates Production Unit Cost (abor rate / daily out for Coarse Aggregates Approximate Time to Stackple 1 curn FA Outgot of 1 tabers in curved ay (working hours / capacity) Fine Aggregates Production Unit Cost (abor rate / daily out for Coarse Aggregates Approximate Time to Stackple 1 curn CA Taol Time Engane No. of Cycle Per Day (working hours / time spent per cycle) Output of 1 taberer in curveday (working hours / capacity) Coarse Aggregates Production Unit Cost (abor rate / daily out for Bouders Approximate Time to Stackple 1 curn CA Taol Time Engane No. of Cycle Per Day (working hours / time spent per cycle) Output of 1 taberer in curveday (working hours / capacity) Bauder Production Unit Cost (Jabor rate / daily output) Average Speed without Load (motor 12% grade dir road) Average Speed without Load Approximate Loading Time Approximate Stack Time Time of Loaded Tip (hualing distance / speed) Time of Loaded Tip (hualing distance / speed) Time Spent per cycle (Tip) No. of Cycle Per Day (working hours / time spent per cycle) Ataling Cost of Aggregates (motor 12% grade per cycle) Time of Loaded Tip (hualing distance / speed) Time Spent per cycle (Tip) No. of Cycle Per Day (working hours / time spent per cycle) Ataling Cost of Aggregates (motor and 7 # of cycles per day)	(jput) (put)	5.00	mins	Рлр ² Рлр ² Рлр ² Рлр ² Рлр ² Соболого соб	114.07 104.07 1.00 7.00 0.55 0.33 0.40 0.43 0.43 0.43 0.40 0.	per cu.m. hrs/cu.m. cu.m/day per cu.m. hrs hrs hrs cu.m/day per cu.m. hrs hrs hrs hrs hrs hrs hrs hrs cycle per cu.m. hrs hrs hrs hrs hrs hrs hrs hrs hrs hrs	y y y y y y y y
2 Aggreg	The Aggregates Production Unit Cost (payleader rental / daily outgo Coarse Aggregates Production Unit Cost (payleader rental / daily outgo Coarse Aggregates Production Unit Cost (payleader rental / daily out Manual Production of Aggregates/Bodders For Fine Aggregates Aggregates Production Unit Cost (payleader rental / daily out for Coarse Aggregates Production Unit Cost (pabor rate / daily out for Coarse Aggregates Production Unit Cost (pabor rate / daily out for Coarse Aggregates Production Unit Cost (pabor rate / daily out for Coarse Aggregates Production Unit Cost (pabor rate / daily out for Coarse Aggregates Production Unit Cost (pabor rate / daily out for Coarse Aggregates Production Unit Cost (pabor rate / daily out for Coarse Aggregates Production Unit Cost (pabor rate / daily out for Coarse Aggregates Production Unit Cost (pabor rate / daily Output of 1 Laborer in cu. m/day (or drog es per day s. capacity) Coarse Aggregates Production Unit Cost (pabor rate / daily for Bouders Approximate Time to Stockpile 1 cu.m Bouders Output of 1 Laborer in cu.m/day (verking hour / capacity) Baudier/Production Unit Cost (pabor rate / daily output) Executed States Proprimates Time to Stockpile 1 cu.m Bouders Data for Distance Aggregates Production Unit Cost (pabor rate / daily output) Average Speed without Load Approximate Loaded Trip (pauling distance / speed) Time of Load	(jput) (put)	5.00	mins	PhP	114.07 104.07 1.00 7.00 0.55 0.33 0.40 0.43 0.43 0.43 0.40 0.	per cu.n. hrs/cu.m. cu.m/day per cu.r. hrs hrs hrs hrs per cu.m. a per cu.m. a	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

3.00 cu.m/load

30.00 mins or 10.00 mins or 2.00 mins or

2.00 km 5.00 km/hr 10.00 km/hr 0.50 hrs 0.17 hrs 0.03 hrs 0.40 hrs

Load Capacity

Boulders
 a) Freight Cost from Source to Job Site

Load Capacit Average Hauling Distance Average Speed with Load (mostly above 12% grade dirt road) Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Loading Time Time of Loaded Trip (houling distance / speed)

Payloader Rental (operated, PhP/day)				PHP	6,424.00			
Payloader Bucket Capacity (bucket volume x 85% efficiency)			-		1.28	cu.m per scoop		
Volume of unprocessed materials (assumed)			-		12.00	cu.m		
No. of Payloader CYCLE [assumed volume / payloader capacity]			-		10.00	cycle (or trips)		
Approximate Screening Time Spent / cycle			-		1.00	min / cycle		
Time Spent Screening Assumed Volume			-			-	10.00	min
Fine Aggregates, FA (after screening) Volume of Fine Aggregates Approximate Time Spent to Stockpile FA Time Spent Stockpiling FA	(60%		-			cu.m min / cu.m =	5.00	min
Coarse Aggregates, CA Volume of Coarse Aggregates Waste	(30% 10%	of unprocessed volume) of unprocessed volume)			3.60	cu.m		

9.6

		Time of Unloaded Trip (hauling distance / speed) Time Spent per Cycle (Trip)					0.20		
		No. of Cycle Per Day (working hours / time spent per cycle)					6.15	cycle	
		Hauling Cost of Boulders (truck rental / # of cycles per day) Loading & Unloading Cost of Boulders ((5 laborer x rate) / (loading-	l +unloadir	g time)]		PhP PhP		per load per load	
									İ
		Hauling Cost of Boulders per cu.m Loading & Unloading Cost of Boulders per cu.m				PhP PhP		per cu.m per cu.m	
		Total Hauling Cost of Boulders per cu.m				PhP	348.07	per cu.m	2
	b)	Manual Hauling Cost from Creek/River to Job Site							
		Capacity of 1 man Average Hauling Distance	0.04	cu.m/load			0.40	km	
		Walking Rate with Load						km/hr	
		Walking Rate without Load Approximate Loading Time		1.00	mins	or	3.50 0.02	km/hr. hrs	
		Approximate Unloading Time		0.50	mins	or	0.01	hrs	
		Approximate Slack Time Time of Loaded Trip (hauling distance / speed)		2.00	mins	or	0.03		
		Time of Unloaded Trip (hauling distance / speed)					0.11		
		Time Spent per Cycle (Trip) No. of Cycle Per Day (working hours / time spent per cycle)						hrs/cycle cycle	
		Output of 1 Laborer in cu.m/day (# of cycles x capacity)					0.75	cu.m/day	y
		Manual Hauling Unit Cost of Aggregates per cu.m (rate / ou	tout per	(veb		PhP	372.62	per cu.r	
			- put per	uuy)			572.02	per cu.	
4	Portlan	d Cement (40kgs/bags)							
	a)	Freight Cost from Hardware to End of Road Load Capacity	200.00	bags/load					
			-	Dirt Road al			Pave Road at		1
		Average Hauling Distance Average Speed with Load		22.00 5.00	km km/hr		28.00 10.00	km km/hr	
		Average Speed without Load		10.00				km/hr	
		Approximate Loading Time		0.50	min/bag	or	1.67	hrs	
		Approximate Unloading Time		0.50	min/bag	or	1.67	hrs	
		Approximate Slack Time		1.00	min	or	0.02	hrs	
		Time of Loaded Trip (hauling distance / speed)		4.40			2.80		
		Time of Unloaded Trip (hauling distance / speed)		2.20	hrs		1.87	hrs	
		Time Spent per Cycle (Trip)						hrs/cycle	
		No. of Cycle Per Day (working hours / time spent per cycle) Hauling Cost of Cement (truck rental / # of cycles per day)				PhP	0.55		
		Loading & Unloading Cost of Cement ((b laborer x rate) / (loading+	unloading	time)]		PhP		per load	
		Hauling Cost of Cement per bag				PhP	51.82	per bag	
		Hauing Cost of Cement per bag Loading & Unloading Cost of Cement per bag				PhP PhP	2.93		
		Tatal Hauling Cast of Carront are bee				PhP	E / T-	ner t	
		Total Hauling Cost of Cement per bag					54.75	per bag	
	b)	Manual Hauling Cost from End of Road to Bodega		boor #=					
		Capacity of 1 man Average Hauling Distance	1.00	bags/load			3.00	km	
		Walking Rate with Load						km/hr	
		Walking Rate without Load Approximate Loading Time		1.00	mins	or	3.50	km/hr. hrs	
		Approximate Unloading Time		0.50	mins	or	0.01		
		Approximate Slack Time Time of Loaded Trip (hauling distance / speed)		2.00	mins	or	0.03		
		Time of Unloaded Trip (hauling distance / speed)					0.86		
		Time Spent per Cycle (Trip) No. of Cycle Per Day (working hours / time spent per cycle)						hrs/cycle cycle	
		Output of 1 Laborer in bags/day (# of cycles x capacity)						bags/day	(
		Manual Hauling Unit Cost of Cement per bag (rate / output	per dav			PhP	96.62	per bag	
			,						
	c)	Manual Hauling Cost from Bodega to Job Site Capacity of 1 Man	1.00	bags/load					
		Average Hauling Distance					0.50		
		Walking Rate with Load Walking Rate without Load					2.00 3.50	km/hr km/hr.	
		Approximate Loading Time		1.00	mins	or	0.02	hrs	
		Approximate Unloading Time Approximate Slack Time		0.50		or or			
		Time of Loaded Trip (hauling distance / speed)		2.00	mins	JI	0.03	hrs	
		Time of Unloaded Trip (hauling distance / speed)					0.14		
		Time Spent per Cycle (Trip) No. of Cycle Per Day (working hours / time spent per cycle)					15.51	hrs/cycle cycle	
		Output of 1 Laborer in bags/day (# of cycles x capacity)			-		15.51	bags/day	1
		Manual Hauling Unit Cost of Cement per bag (rate / output per day)			PhP	18.05	per bag	
	Bolar	cing Steel Bars, CWN, Tie Wire							-
5	Reinfor a)	cing Steel Bars, CWN, Tie Wire Freight Cost from Hardware to End of Road							
-			#####				0		
		Load Capacity			ww 12%		Pave Road at		
				Dirt Road at 22.00	km		28.00		
		Average Hauling Distance Average Speed with Load		22.00 5.00	km/hr		28.00 10.00	km/hr	
		Average Hauling Distance Average Speed with Load Average Speed without Load		22.00 5.00 10.00	km/hr km/hr	or	10.00 15.00	km/hr km/hr	
		Average Hauling Distance Average Speed with Load Average Speed without Load Approximate Loading Time Approximate Usolaring Time		22.00 5.00 10.00 1.00 0.50	km/hr km/hr min/20kg min/20kg	or	10.00 15.00 6.67 3.33	km/hr km/hr hrs hrs	
		Average Hauling Distance Average Speed with Load Average Speed without Load Approximate Loading Time Approximate Save Time Approximate Save Time		22.00 5.00 10.00 1.00 0.50 1.00	km/hr km/hr min/20kg min/20kg min		10.00 15.00 6.67 3.33 0.02	km/hr km/hr hrs hrs hrs	
		Average Hauling Distance Average Speed with Load Average Speed without Load Approximate Loading Time Approximate Unioading Time Approximate Stack Time Time of Loaded Tip (hauling distance / speed) Time of Unioaded Tip (hauling distance / speed)		22.00 5.00 10.00 1.00 0.50	km/hr km/hr min/20kg min/20kg min	or	10.00 15.00 6.67 3.33 0.02 2.80 1.87	km/hr km/hr hrs hrs hrs hrs hrs	
		Average Hauling Distance Average Speed with Load Average Speed without Load Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Stack Time Time of Loaded Trip (hauling distance / speed) Time of thousade Trip (hauling distance / speed) Time of thousade Trip (hauling distance / speed)		22.00 5.00 10.00 0.50 1.00 4.40	km/hr km/hr min/20kg min/20kg min	or	10.00 15.00 6.67 3.33 0.02 2.80 1.87 21.28	km/hr km/hr hrs hrs hrs hrs hrs hrs hrs/cycle	
		Average Hauling Distance Average Speed with Load Average Speed without Load Approximate Loading Time Approximate Unioading Time Approximate Stack Time Time of Loaded Tip (hauling distance / speed) Time of Unioaded Tip (hauling distance / speed)		22.00 5.00 10.00 0.50 1.00 4.40	km/hr km/hr min/20kg min/20kg min	or	10.00 15.00 6.67 3.33 0.02 2.80 1.87 21.28	km/hr km/hr hrs hrs hrs hrs hrs	
		Average Hauling Distance Average Speed with Load Average Speed with Load Approximate Loading Time Approximate United Time Approximate Saks Time Time of Load Tim (pulsuing distance / speed) Time of Unidad Tim (pulsuing distance / speed) Time Spent per Cycle (Trip) Line Spent per Cycle (Trip)	g+unload	22.00 5.00 10.00 0.50 1.00 4.40 2.20	km/hr km/hr min/20kg min/20kg min	or	10.00 15.00 6.67 3.33 0.02 2.80 1.87 21.28 0.38	km/hr km/hr hrs hrs hrs hrs hrs hrs/cycle cycle per load	
		Average Hauling Distance Average Speed with Load Average Speed without Load Aperoximate Loading Time Approximate Subar (Time Approximate Subar, Kime Time of Loaded Trip (hauling distance / speed) Time of Unloaded Trip (hauling distance / speed) Time Speet per Cycle ('rip) No: of Cycle For Day (working hours / time speet per cycle) Hauling Cost of TBECNN (truck rent #/ # of cycles per day)	g+unload	22.00 5.00 10.00 0.50 1.00 4.40 2.20	km/hr km/hr min/20kg min/20kg min	or or PhP	10.00 15.00 6.67 3.33 0.02 2.80 1.87 21.28 0.38 15,089.88	km/hr km/hr hrs hrs hrs hrs hrs cycle per load per load	
		Average Hauling Distance Average Speed with Load Average Speed without Load Approximate Loading Time Approximate Subarding Time Approximate Subark Time Time of Unided Trip (hauling distance / speed) Time of Unided Trip (hauling distance / speed) Time Speed per Crycle (Trip) No. of Crycle Per Day (contring hours: / time spent per crycle) Hauling Cost of RSB.CVM (Tuck rental / # of cycles per day) Loading & Unidealing Cost of RSB.CVM ((# of labor x rate) / Quadr	g+unload	22.00 5.00 10.00 0.50 1.00 4.40 2.20	km/hr km/hr min/20kg min/20kg min	or or PhP PhP	10.00 15.00 6.67 3.33 0.02 2.80 1.87 21.28 0.38 15,089.88 1,752.92 7.89	km/hr km/hr hrs hrs hrs hrs hrs cycle per load per load	
		Average Hauling Distance Average Speed with Load Average Speed with Load Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Loading Time (Speed) Time of Unloaded Trip (hauling distance / speed) Time of Unloaded Trip (hauling distance / speed) Time Speen (per Cycle (Trip) No. of Cycle Fer Day (working hours / time speent per cycle) Hauling Coad TREX.VNN (truck real 1/2 of cycles per day) Loading & Unloading Cost of RSB.CNN ((# of labor x rate) / (badin Hauling Coad TREX.CNN per kgs Loading & Unloading Cost of RSB.CNN (per kgs	g+unload	22.00 5.00 10.00 0.50 1.00 4.40 2.20	km/hr km/hr min/20kg min/20kg min	or or PhP PhP PhP	10.00 15.00 6.67 3.33 0.02 2.800 1.87 21.28 0.38 15,089.88 1,752.92 1.89 0.22	km/hr km/hr hrs hrs hrs hrs hrs/cycle cycle per load per load per load per kgs	
		Average Hauling Distance Average Speed with Load Average Speed without Load Average Speed without Load Approximate Loading Time Approximate Subark Time Time of Loaded Trip (hauling distance / speed) Time of Unided Trip (hauling distance / speed) Time Speent per Cycle (Trip) No. of Cycle Fir Day (working hours / time spent per cycle) Hauling Cost of RSE. CWW per kgs Loading & Unioading Cost of RSE. CWW per kgs Loading & Unioading Cost of RSE. CWW per kgs	g+unload	22.00 5.00 10.00 0.50 1.00 4.40 2.20	km/hr km/hr min/20kg min/20kg min	or or PhP PhP PhP PhP	10.00 15.00 6.67 3.33 0.02 2.80 1.87 21.28 0.38 1.752.92 1.752.92 0.22 2.11	km/hr km/hr hrs hrs hrs hrs/cycle cycle per load per load per kgs per kgs	
		Average Hauling Distance Average Speed with Load Average Speed with Load Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Loading Time (Speed) Time of Unloaded Trip (hauling distance / speed) Time of Unloaded Trip (hauling distance / speed) Time Speen (per Cycle (Trip) No. of Cycle Fer Day (working hours / time speent per cycle) Hauling Coad TREX.VNN (truck real 1/2 of cycles per day) Loading & Unloading Cost of RSB.CNN ((# of labor x rate) / (badin Hauling Coad TREX.CNN per kgs Loading & Unloading Cost of RSB.CNN (per kgs	g + unload	22.00 5.00 10.00 0.50 1.00 4.40 2.20	km/hr km/hr min/20kg min/20kg min	or or PhP PhP PhP PhP	10.00 15.00 6.67 3.33 0.02 2.80 1.87 21.28 0.38 15,089.88 1,752.92 1.89 0.22 2.11 37.72	km/hr km/hr hrs hrs hrs hrs/cycle cycle per load per load per load per kgs per kgs per kgs per kgs	
		Average Hauling Distance Average Speed with Load Average Speed with Load Average Speed without Load Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Substance / speed) Time of Loaded Trip (hauling distance / speed) Time of Loaded Trip (hauling distance / speed) Time of Unioaded Trip (hauling distance / speed) Loading & Unioadeng Cost of RSB. CVM (per kgs Loading & Unioading Cost of RSB. CVM per kgs Total Hauling Cost of RSB. CVM per kgs For GI Pipe (Assume 20kg for 6m length) For Steel Wire (Assume 25m = 1 kgs)	g + unload	22.00 5.00 10.00 0.50 1.00 4.40 2.20	km/hr km/hr min/20kg min/20kg min	or or PhP PhP PhP PhP	10.00 15.00 6.67 3.33 0.02 2.80 1.87 21.28 0.38 15,089.88 1,752.92 1.89 0.22 2.11 37.72	km/hr km/hr hrs hrs hrs hrs/cycle cycle per load per load per kgs per kgs	
	(b)	Average Hauling Distance Average Speed with Load Average Speed with Load Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate United Starks (* speed) Time of Loaded The (hualing distance / speed) No. of Cycle Ner Day (working hours: / time spent per cycle) No. of Cycle Ner Day (working hours: / time spent per cycle) Hauling Cost of RSB. CWN (teck renal / # of cycles per day) Loading & Unioading Cost of RSB. CWN (# of Lobor x rite) / (bading Hauling Cost of RSB. CWN per kgs Loading & Unioading Cost of RSB. CWN per kgs Total Hauling Cost of RSB. CWN per kgs For GI Pipe (Assume 20kg for 6m length) For Steel Wire (Assume 25m = 1 kgs) Manual Hauling Cost from End of Road to Bookga		22.00 5.00 10.00 0.50 1.00 4.40 2.20	km/hr km/hr min/20kg min/20kg min	or or PhP PhP PhP PhP	10.00 15.00 6.67 3.33 0.02 2.80 1.87 21.28 0.38 15,089.88 1,752.92 1.89 0.22 2.11 37.72	km/hr km/hr hrs hrs hrs hrs/cycle cycle per load per load per load per kgs per kgs per kgs per kgs	
	b)	Average Hauling Distance Average Speed with Load Average Speed with Load Average Speed without Load Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Substance / speed) Time of Loaded Trip (hauling distance / speed) Time of Loaded Trip (hauling distance / speed) Time of Unioaded Trip (hauling distance / speed) Loading & Unioadeng Cost of RSB. CVM (per kgs Loading & Unioading Cost of RSB. CVM per kgs Total Hauling Cost of RSB. CVM per kgs For GI Pipe (Assume 20kg for 6m length) For Steel Wire (Assume 25m = 1 kgs)		22.00 5.00 10.00 0.50 1.00 4.40 2.20	km/hr km/hr min/20kg min/20kg min	or or PhP PhP PhP PhP	10.00 15.00 6.67 3.33 0.02 2.800 1.87 21.28 0.38 15.069.88 1.752.92 	km/hr km/hr hrs hrs hrs hrs/cycle cycle per load per load per kgs per kgs per kgs per kgs km	
	b)	Average Hauling Distance Average Speed with Load Average Speed with Load Average Speed without Load Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Subsci. Time Time of Unloaded Trip (hauling distance / speed) Time of Unloaded Trip (hauling distance / speed) Time of Unloading Cost of RSB.cVM (lef or labor x rate) / (badin Hauling Cost of RSB.cVM (uck renta) / of cycles per day) Loading A. Unloading Cost of RSB.cVM (per kgs Loading Cost of RSB.cVM per kgs Loading Cost of RSB.cVM per kgs Total Hauling Cost of RSB.cVM per kgs Total Hauling Cost of RSB.cVM per kgs Total Hauling Cost and RSB.cVM per kgs Capacity of Lime Cost from End of Road to Bookga Capacity of 1 man Average Hauling Distance Waiking Tate with Load		22.00 5.00 10.00 0.50 1.00 4.40 2.20	km/hr km/hr min/20kg min/20kg min	or or PhP PhP PhP PhP	10.00 15.00 6.67 2.80 1.87 2.128 1.509.88 1.509.88 1.509.88 1.752.92 2.11 37.72 0.088 3.00 2.00	km/hr km/hr hrs hrs hrs hrs/cycle per load per load per kgs per kgs per pcs per m km km/hr	
	b)	Average Hauling Distance Average Speed with Lod Average Speed with Lod Average Speed without Load Average Speed without Load Approximate Londong Time Approximate Unidential Time Time of Loaded Trip (building distance / speed) Time of Loaded Trip (building distance / speed) Loading & Unioading Cost of RSB. CVM (see fast Loading & Unioading Cost of RSB. CVM per kgs Loading & Unioading Cost of RSB. CVM per kgs Total Hauling Cost of RSB. CVM per kgs For GI Pipe (Assume 20kg for 6m length) For Steel Wire (Assume 25m = 1 kgs) Manual Hauling Cost from End of Road to Bookga Capacity of 1 man Average Hauling Distance		22.00 5.00 10.00 0.50 1.00 4.40 2.20 iing time)]	km/hr km/hr min/20kg min/20kg min	or or PhP PhP PhP PhP	10.00 15.00 6.67 2.80 1.87 2.128 1.509.88 1.509.88 1.509.88 1.752.92 2.11 37.72 0.088 3.00 2.00	km/hr km/hr hrs hrs hrs hrs cycle per load per load per load per kgs per kgs per pes per m per m km/hr.	

		An encoder sta Claude Time			and an				
		Approximate Slack Time Time of Loaded Trip (hauling distance / speed)		2.00	mins	or	0.03		
		Time of Unloaded Trip (hauling distance / speed)						hrs	
		Time Spent per Cycle (Trip) No. of Cycle Per Day (working hours / time spent per cycle)						hrs/cycle cycle	
		Output of 1 Laborer in kgs/day (# of cycles x capacity)						kgs/day	
		Manual Hauling Unit Cost of RSB, CWN per kgs (rate / outp	ut per di	(//		PhP	6.04	ner kas	
-		manual Hadning Onit Cost of K3B, CWW per kgs (rate / outp		197		FILE	0.04	per kgs	
		For GI Pipe (Assume 20kg for 6m length)					120.77	per pcs	
-		For Steel Wire (Assume 25m = 1 kgs)					0.24	per m	
	c)	Manual Hauling Cost from Bodega to Job Site							
		Capacity of 1 Man	40.00	kgs/load			0.50	km	
		Average Hauling Distance Walking Rate with Load					2.00	km km/hr	
		Walking Rate without Load					3.50	km/hr.	
		Approximate Loading Time Approximate Unloading Time		1.00	mins mins	or or	0.02	hrs hrs	
		Approximate Slack Time		ļ	mins	or	0.03	hrs	
		Time of Loaded Trip (hauling distance / speed)					0.25	hrs	
		Time of Unloaded Trip (hauling distance / speed) Time Spent per Cycle (Trip)					0.14	hrs hrs/cycle	
		No. of Cycle Per Day (working hours / time spent per cycle)					15.51	cycle	
		Output of 1 Laborer in kgs/day (# of cycles x capacity)					620.58	kgs/day	
		Manual Hauling Unit Cost of RSB, CWN per kgs (rate / output per d	(ay)			PhP	0.45	per kgs	
		For GI Pipe (Assume 20kg for 6m length) For Steel Wire (Assume 25m = 1 kgs)						per pcs per m	
							0.02	perm	
6		d, Tarpaulin							
_	a)	Freight cost from hardware to end of road Load Capacity	200.00	pcs/load					
				Dirt Road at			Pave Road al		
		Average Hauling Distance		22.00		<u> </u>	28.00		_
		Average Speed with Load Average Speed without Load		5.00	km/hr km/hr		10.00 15.00	km/hr km/hr	
		Approximate Loading Time		1.00	min/pcs	or	3.33	hrs	
]		Approximate Unloading Time Approximate Slack Time		1.00	min/pcs min	or or	3.33	hrs hrs	
		Approximate Slack Time Time of Loaded Trip (hauling distance / speed)			min hrs	or	0.02	hrs hrs	
		Time of Unloaded Trip (hauling distance / speed)		2.20	hrs		1.87	hrs	
		Time Spent per Cycle (Trip) No. of Cycle Per Day (working hours / time spent per cycle)					17.95 0.45	hrs/cycle cycle	
-		Hauling Cost of RSB,CWN (truck rental / # of cycles per day)				PhP	12,726.55	per load	
		Loading & Unloading Cost of RSB,CWN [(# of labor x rate) / (loadin	ig+unload	ting time)]		PhP	1,169.58	per load	
-		Hauling Cost of Plywood per pcs				PhP	63.63	per pcs	
		Loading & Unloading Cost of Plywood per pcs				PhP		per pcs	
		Total Hauling Cost of Plywood per pcs				PhP	(0.40	per pcs	
		Total Hability cost or Hymood per pcs				FIR	07.40	per pcs	
	b)	Manual Hauling Cost from End of Road to Bodega							
_	c)	Manual Hauling Cost from Bodega to Job Site Capacity of 1 Man	2.00	pcs/load					
		Average Hauling Distance	2.00				0.50	km	
		Walking Rate with Load						km/hr	
		Walking Rate without Load Approximate Loading Time		0.50	mins	or	3.50	km/hr. hrs	
		Approximate Unloading Time		ļ	mins	or	0.01	hrs	
		Approximate Slack Time		2.00	mins	or	0.03	hrs	
		Time of Loaded Trip (hauling distance / speed) Time of Unloaded Trip (hauling distance / speed)					0.25	hrs hrs	
		Time Spent per Cycle (Trip)					0.44	hrs/cycle	
		No. of Cycle Per Day (working hours / time spent per cycle) Output of 1 Laborer in pcs/day (# of cycles x capacity)					15.81 31.61	cycle pcs/day	
_							31.01	pcs/uay	
1									
		Manual Hauling Unit Cost of Plywood per pcs (rate / output per day	9 9			PhP	8.86	per pcs	
6	RC Pipe))			PhP	8.86	per pcs	
6	RC Pipe					PhP	8.86	per pcs	
6	RC Pipe	Culvert		pcs/load		PhP			
6	RC Pipe	Culvert Freight Cost from Hardware to End of Road Load Capacity		pcs/load Dirt Road al 22.00		PhP	8.86 Pave Road at 28.00	bove 12%	
6	RC Pipe	Culvert Freight Cost from Hardware to End of Road Load Capacity Average Hauling Distance Average Speed with Load		Dirt Road at 22.00 5.00	km km/hr	PhP	Pave Road at 28.00 10.00	bove 12% km km/hr	
6	RC Pipe	Culvert Preight Cost. from Hardware to End of Road Load Capacity Average Hauling Distance		Dirt Road at 22.00	km km/hr	PhP	Pave Road at 28.00	bove 12% km km/hr	
6	RC Pipe	Culvert Freight Cost from Hardware to End of Road Load Capacity Average Hauling Distance Average Speed with Load		Dirt Road al 22.00 5.00 10.00	km km/hr	PhP	Pave Road at 28.00 10.00	km km/hr km/hr	
6	RC Pipe	Culvert Treight Cost. from Hardware to End of Road Treight Cost. from Hardware to End of Road Load Capacity Average Hauling Distance Average Speed with Load Approximate Lucidating Time Approximate Lucidating Time Approximate Lucidating Time		Dirt Road al 22.00 5.00 10.00 2.50 2.50	km km/hr km/hr min/pcs min/pcs	or	Pave Road at 28.00 10.00 15.00 0.42 0.42	bove 12% km km/hr km/hr hrs hrs	
6	RC Pipe	Culvert Proght Cost from Hardware to End of Road Load Capacity Average Hauling Distance Average Speed with Load Average Speed without Load Approximate Loading Time		Dirt Road at 22.00 5.00 10.00 2.50	km km/hr km/hr min/pcs min/pcs	or	Pave Road at 28.00 10.00 15.00 0.42	bove 12% km km/hr km/hr hrs hrs	
6	RC Pipe	Culvert Treight Cost. from Hardware to End of Road Treight Cost. from Hardware to End of Road Load Capacity Average Hauling Distance Average Speed with Load Approximate Lucidating Time Approximate Lucidating Time Approximate Lucidating Time		Dirt Road al 22.00 5.00 10.00 2.50 2.50	km km/hr km/hr min/pcs min/pcs min	or	Pave Road at 28.00 10.00 15.00 0.42 0.42	bove 12% km km/hr km/hr hrs hrs hrs	
6	RC Pipe	Culvert Proght Cost from Hardware to End of Abad Load Capacity Average Hauling Distance Average Speed without Load Average Speed without Load Approximate Loading Time Approximate Loading Time Time of Loaded Trip (hauling distance / speed) Time of Loaded Trip (hauling distance / speed)		Dirt Road al 22.00 5.00 10.00 2.50 2.50 1.00	km km/hr km/hr min/pcs min/pcs min hrs	or	Pave Road at 28.00 10.00 0.42 0.42 0.42 0.42 0.2 2.80 1.87	bove 12% km km/hr km/hr hrs hrs hrs hrs hrs hrs	
6	RC Pipe	Culvert ProgNr Cost from Hardware to End of Road Load Capacity Average Hauling Distance Average Speed with Load Average Speed with Load Average Speed with Load Approximate Loading Time Approximate Loading Time Time of Loaded Trip (hauling distance / speed)		Dirt Road at 22.00 5.00 10.00 2.50 2.50 1.00 4.40	km km/hr km/hr min/pcs min/pcs min hrs	or	Pave Road at 28.00 10.00 15.00 0.42 0.42 0.02 2.80 1.87 12.12	bove 12% km km/hr km/hr hrs hrs hrs hrs hrs	
6	RC Pipe	Culvert Treight Cost from Hardware to End of Road Load Capacity Average Hauling Distance Average Speed without Load Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Stack Time Time of Loaded Trip (hauling distance / speed)		Dirt Road at 22.00 5.00 10.00 2.50 2.50 1.00 4.40 2.20	km km/hr km/hr min/pcs min/pcs min hrs	or or or PhP	Pave Road al 28:00 10:00 15:00 0.42 0.42 0.02 2:80 1.87 12:12 0.66 8:590.72	bowe 12% km km/hr km/hr hrs hrs hrs hrs hrs hrs per load	
6	RC Pipe	Culvert ProgNr Cost from Hardware to End of Abad Load Capacity Average Hauling Distance Average Speed will Load Average Speed will Load Average Speed will Load Approximate Loading Time Approximate Unading Time Approximate Unading Time Time of Load Tip (hauling distance / speed) Time Speed) Time of Unidodia Tip (hauling distance / speed) Time of Unidodia Tip (hauling distance / speed) Time Speed (Cirig) Ciries Speed (Ciries) Ciries Speed (Ciries) Ciries		Dirt Road at 22.00 5.00 10.00 2.50 2.50 1.00 4.40 2.20	km km/hr km/hr min/pcs min/pcs min hrs	or or or	Pave Road al 28:00 10:00 15:00 0.42 0.42 0.02 2:80 1.87 12:12 0.66 8:590.72	bove 12% km km/hr hrs hrs hrs hrs hrs hrs	
6	RC Pipe	Culvert Treight Cost from Hardware to End of Road Load Capacity Average Hauling Distance Average Speed without Load Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Stack Time Time of Loaded Trip (hauling distance / speed)		Dirt Road at 22.00 5.00 10.00 2.50 2.50 1.00 4.40 2.20	km km/hr km/hr min/pcs min/pcs min hrs	or or or PhP	Pave Road at 28.00 15.00 0.42 0.42 0.42 2.80 1.87 12.12 0.66 8.590.72 148.75	bowe 12% km km/hr km/hr hrs hrs hrs hrs hrs hrs per load	
6	RC Pipe	Culvert Fright Cost from Hardware to End of Abad Load Capacity Average Hauling Distance Average Speed without Load Average Speed without Load Approximate Loading Time Approximate Unitading Time Approximate Unitading Time Time of Loaded Trip (hauling distance / speed) Time of Loaded Trip (hauling distance / speed) Time of Unitaded Trip (hauling distance / speed) Time Speed (Trip) No. 6 Cycle Per Dy (vorking hours: / time spent per cycle) Hauling Cost of RC Pipes ((r of lator x rate) / (loading & Uniteading Cost of RC Pipes ((r of lator x rate) / (loading & Uniteading Cost of RC Pipes ((r of lator x rate) / (loading & Uniteading Cost of RC Pipes ((r of lator x rate) / (loading & Uniteading Cost of RC Pipes ((r of lator x rate) / (loading & Uniteading Cost of RC Pipes ((r of lator x rate) / (loading & Uniteading Cost of RC Pipes ((r of lator x rate) / (loading & Uniteading Cost of RC Pipes ((r of lator x rate) / (loading & Uniteading Cost of RC Pipes ((r of lator x rate) / (loading & Uniteading Cost of RC Pipes ((r of lator x rate) / (loading & Uniteading Cost of RC Pipes ((r of lator x rate) / (loading & Uniteading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipes ((r of lator x rate) / (loading Cost of RC Pipe		Dirt Road at 22.00 5.00 10.00 2.50 2.50 1.00 4.40 2.20	km km/hr km/hr min/pcs min/pcs min hrs	or or PhP PhP	Pave Road at 28.00 10.00 0.42 0.42 0.42 0.42 1.87 12.12 0.66 8.590.72 148.75	km km/hr km/hr hrs hrs hrs hrs hrs prs/cycle cycle per load	
6	RC Pipe a)	Colvert ProgNr Cost from Hardware to End of Road Load Capacity Average Hauling Distance Average Speed with Load Average Speed with Load Average Speed with Load Average Speed with Load Approximate Loading Time Approximate Loading Time Approximate Loading Time Approximate Loading Time Time of Loaded Trip (hauling distance / speed) Loading & Univading Cost of RC Pipes per pes Loading & Univading Cost of RC Pipes per pes		Dirt Road at 22.00 5.00 10.00 2.50 2.50 1.00 4.40 2.20	km km/hr km/hr min/pcs min/pcs min hrs	or or or or PhP PhP PhP PhP	Pave Road at 28.00 10.00 0.42 0.42 0.42 0.42 0.42 1.87 12.12 0.66 8.590.72 148.75 859.07 14.88	bove 12% km km/hr km/hr hrs hrs hrs hrs hrs hrs hrs hrs hrs h	
		Colvert Fright Cost from Hardware to End of Abad Load Capacity Average Hauling Distance Average Speed without Load Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Unioading Time Approximate Sark Time Time of Loaded Trip (hauling distance / speed) Time Speed without Load Hauling Cost of RC Pipes per pcs Loading & Unioading Cost of RC Pipes per pcs Total Hauling Cost of RC Pipes per pcs		Dirt Road at 22.00 5.00 10.00 2.50 2.50 1.00 4.40 2.20	km km/hr km/hr min/pcs min/pcs min hrs	or or or PhP PhP	Pave Road at 28.00 10.00 0.42 0.42 0.42 0.42 0.42 1.87 12.12 0.66 8.590.72 148.75 859.07 14.88	km km/hr km/hr hrs hrs hrs hrs hrs/cycle cycle per load per load per pcs	
		Colvert Preight Cost from Hardware to End of Road Load Capacity Average Hauling Distance Average Speed with Load Average Speed with Load Average Speed with Load Approximate Sub- Approximate Loading Time Approximate Sub- Approxi	10.00	Dirt Road at 22.00 5.00 10.00 2.50 2.50 1.00 4.40 2.20 (ing time)]	km km/hr km/hr min/pcs min/pcs min hrs	or or or or PhP PhP PhP PhP	Pave Road at 28.00 10.00 0.42 0.42 0.42 0.42 0.42 1.87 12.12 0.66 8.590.72 148.75 859.07 14.88	bove 12% km km/hr km/hr hrs hrs hrs hrs hrs hrs hrs hrs hrs h	
		Colvert Fright Cost from Hardware to End of Abad Load Capacity Average Hauling Distance Average Speed without Load Average Speed without Load Approximate Loading Time Approximate Loading Time Approximate Lindading Time Approximate Sark Time Time of Loaded Trip (hauling distance / speed) Time of Lindade Trip (hauling distance / speed) Time of Unidade Trip (hauling distance / speed) Time of Loaded Trip (hauling distance / speed) Time of Loaded Trip (hauling distance / speed) Time of Lindade Trip (hauling distance / speed) Time of Lindade Trip (hauling distance / speed) Time of Unidade Trip (hauling distance / speed) Time of Unidade Trip (hauling distance / speed) Time of Unidade Trip (hauling distance / speed) Time of trip (hauding Cost of RC Pipes per pcs) Total Hauling Cost of RC Pipes per pcs Total Hauling Cost of RC Pipes per pcs Adamaa Hauling Cost from End of Road to Bodega Capacity of 1 man	10.00	Dirt Road at 22.00 5.00 10.00 2.50 2.50 1.00 4.40 2.20	km km/hr km/hr min/pcs min/pcs min hrs	or or or or PhP PhP PhP PhP	Fave Road at 28.00 10.00 15.00 2.80 1.87 12.12 0.66 8.590.72 148.75 859.07 74.88 859.07 74.88	bove 12% km km/hr hrs hrs hrs hrs hrs hrs cycle per load per load per pos per pos	
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Approximate Loading Time		15.00	mins	or	0.25	hrs
Approximate Unloading Time		15.00	mins	or	0.25	hrs
Approximate Slack Time		2.00	mins	or	0.03	hrs
Time of Loaded Trip (hauling distance / speed)					0.40	hrs
Time of Unloaded Trip (hauling distance / speed)				1	0.20	hrs
Time Spent per Cycle (Trip)					0.88	hrs/cycle
No. of Cycle Per Day (working hours / time spent per cycle)				1	9.06	cycle
Hauling Cost of Boulders (truck rental / # of cycles per day)				PhP	626.28	per load
 Loading & Unloading Cost of Boulders (5 laborer x rate) / (loading -	unloadir	ng time)		PhP	571.02	per load
Hauling Cost of Water per cu.m				PhP	208.76	per cu.m
Loading & Unloading Cost of Water per cu.m				PhP	190.34	per cu.m
Total Hauling Cost of Water per cu.m				PhP	399.10	per cu.m