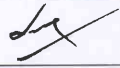
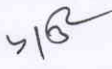
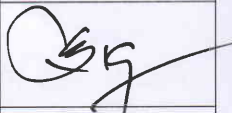
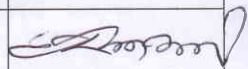
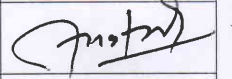
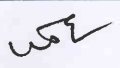
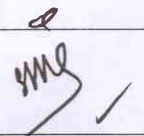
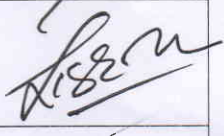
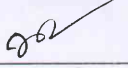


सडक विभाग
मिटिड.- माईन्युट

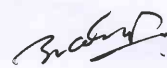
आज मिति २०७५ माघ १८ गते सडक विभागका, महानिर्देशक श्री रविन्द्र नाथ श्रेष्ठज्यूको अध्यक्षतामा देहाय बमोजिमको पदाधिकारीहरुको उपस्थितिमा बैठक बसी देहाय बमोजिम छलफल तथा निर्णय गरियो ।
उपस्थिति:-

सि.नं	नाम	पद	कार्यालय	दस्तखत
१	श्री रविन्द्र नाथ श्रेष्ठ	महानिर्देशक	सडक विभाग	
२	श्री प्रमिला देवी शाक्य बर्जाचार्य	उपमहानिर्देशक	स.वि., संभार महाशाखा	
३	श्री केशव कुमार शर्मा	उपमहानिर्देशक	स.वि., विकास सहायता कार्यान्वयन महाशाखा	
४	श्री संजय कुमार श्रेष्ठ	निर्देशक	स.वि., गुणस्तर, अनुसन्धान तथा विकास केन्द्र	
५	श्री हरिराम आचार्य	उपमहानिर्देशक	स.वि., यान्त्रिक महाशाखा	
६	श्री दिपकु.भट्टराई	उपमहानिर्देशक	स.वि., पुल महाशाखा	
७		उपमहानिर्देशक	स.वि., योजना तथा अनुगमन महाशाखा	
८	श्री राजेश कुमार दास	सि.डि.ई.	स.वि. उत्तर दक्षिण । व्यापारीक मार्ग विस्तार आयोजना निर्देशनालय	
९	अर्जुन प्रसाद अर्याल	आयोजना प्रमुख	काठमाण्डौ उपत्यका सडक विस्तार आयोजना, काठमाण्डौ	
१०	श्री अमित कुमार श्रेष्ठ	सि.डि.ई.	पुष्पलाल -मध्य पहाडी), लोकमार्ग आयोजना निर्देशनालय, बुद्धनगर	
११	श्री राजेन्द्र राज शर्मा	सु.ई.	संघीय सडक सुपरिवेक्षण तथा अन'गमन कार्यालय, काठमाण्डौ	
१२	श्री मेघराज मरासिनी	सि.डि.ई.	सडक डिभिजन, बुटवल	

आमन्त्रीत:

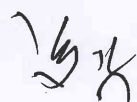
सि.डि.ई., श्री शिवराज अधिकारी, भु बातावरण तथा सामाजिक शाखा, चाकुपाट 

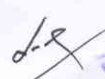
सि.डि.ई., श्री विनोद सापकोटा, कान्ति लोकपथ, पाटन ।

सि.डि.ई., श्री अशोक कुमार श्रेष्ठ, यान्त्रिक महाशाखा, चाकुपाट । 

छलफल तथा निर्णयहरु:

सडक तथा पुल निर्माण कार्यमा प्रयोग हुने यान्त्रिक उपकरणको भाडादर नं. NORMS for RATE ANALYSIS of Road and Bridge Works २०७५।४।२५ मा मन्त्रिपरिषद बाट स्विकृत भएको छ । तर सो Norms को प्रयोगको लागि लागि Equipment को Ownership and Operation charge समेत समावेश

 रविन्द्र नाथ श्रेष्ठ
महानिर्देशक

रहेको Equipment Hire Charge आवश्यक हुने देखि श्री सडक विभाग, यान्त्रिक महाशाखाको समन्वयमा Guideline for Estimating Equipment Ownership and Operating Costs तयार गरिएको छ ।
उक्त विषय र Guideline उपर छलफल हुंदा निम्न अनुसार को प्रयोजनको लागि Guideline उपयोग हुने देखिन्छ ।

१. "NORMS for RATE ANALYSIS" मा Hire charge shall be include ownership charges and operation charges (Fuel component+ crew component + maintenance component) उल्लेख भएको र प्रस्तुत Equipment Hire Charge मा Ownership and Operation charge समेत समावेश रहेको ले Norms को Support को लागि उपयोग हुने ।
२. प्रायजसो जिल्ला दर रेटमा मेशिनहरु को भाडादर सडक विभागले कायम गरे अनुसार हुने उल्लेख गरिएको अवस्थामा उपयोग हुन सक्ने ।
३. विगतमा सडक विभागले कायम गरेको भाडादर पनि हालको बजार अनुसार अद्यावधिक गर्नु पर्ने तथा ईन्धन सहितको भाडादर (ईन्धनको मुल्य परिवर्तन हुदा स्वतः परिवर्तन हुने गरी) तैयार गरी सडक विभाग र मातहतका कार्यालयहरु लागत अनुमान गर्दा एकरूपता ल्याउन उपयोग हुने ।

तसर्थ सडक विभाग, यान्त्रिक महाशाखाको समन्वयमा तैयार गरिएको यसैसाथ संलग्न Guideline for Estimating Equipment Ownership and Operating Costs स्विकृती र नेपाल आयल निगमबाट निर्धारित तेल्य पदार्थको Component मा र नेपाल बिद्युत प्राविधिकरण निर्धारित बिद्युत महशुलमा सम्बन्धित कार्यालयले नै अद्यावधिक गर्ने गरी व्यवस्था राखी कायान्वयन हुने पर्ने निर्णय गरियो ।

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रविन्द्र नाथ श्रेष्ठ
महानिदेशक

Rates of Plant and Machinery

(The usage rates includes, cost of repair and maintenance, running and operation charge which includes crew, fuel and lubricants)

Sr. No.	Description of machine	Activity/ Usages	Capacity/ output	Output	Unit	Rate (Rs/hr)	Ownership Charge (Rs/hr)	Operation Charges (Rs/hr)				Fuel (L/hr)	Electricity (Units/hr)	Fuel Oil (Heating) (L/hr)	Remarks
								Fuel/ Electricity	Operators (Crew)	Servicing (FOG)	Maintenance				
P&M-001	Air Compressor	General Purpose	cfm	170/250	Hour	1,459	349	482	360	159	109	5.73			
P&M-002	Batching & Mixing Plant	Concrete Mixing	cum	30	Hour	4,061	1,221	1,377	600	455	408	16.38			
P&M-003	Batching & Mixing Plant	Concrete Mixing	cum	15-20	Hour	1,807	651	344	480	114	218	4.10			
P&M-004	Bitumen Pressure Distributor	Applying Bitumen tack coat	sqm/hr	1750	Hour	4,377	1,843	1,113	360	367	630	10.24		3.00	Fuel oil
P&M-005	Bitumen Boiler Oil fired	Bitumen spraying	ltr	1500	Hour	858	286	266	120	88	99	1.96		2.00	Fuel oil
P&M-006	Concrete Paver Finisher	Paving Concrete surface	cum/hr	20	Hour	6,139	472	3,867	360	1,276	163	0.00	26.86		Electricity
P&M-007	Concrete Pump	Pumping of Concrete	cum/hr	33/22	Hour	2,038	740	515	450	170	163	6.12			
P&M-008	Concrete Bucket	For pouring concrete	cum	1	Hour	16	12	-	-	-	5	0.00			
P&M-009	Concrete Mixing	Concrete Mixing	cum	0.4	Hour	362	49	43	240	14	16	0.51			
P&M-010	Concrete Mixing	Concrete Mixing	cum	1	Hour	523	81	86	300	28	27	1.02			
P&M-011	Crane Mobile	Lifting purpose	ton	80	Hour	13,148	7,833	1,513	480	499	2,696	18.00			
P&M-012	Crane Mobile	Lifting purpose	ton	35	Hour	5,552	2,844	984	360	325	977	11.70			
P&M-013	Crane Mobile	Lifting purpose	ton	3	Hour	2,501	1,176	454	300	150	389	5.40			
P&M-014	Dozer Track	Spreading/Cutting/ Clean	cum	300/150/25	Hour	7,926	3,575	1,980	480	653	1,238	23.55			
P&M-015	Dozer Track	Spreading/Cutting/ Clean	cum	200/120/15	Hour	5,891	2,960	1,189	360	392	990	14.14			
P&M-016	Emulsion Pressure Distributor	Applying Emulsion tack coat	sqm/hr	1750	Hour	1,721	559	344	480	114	182	4.10			
P&M-017	Front End Loader, Wheeled	Soil/Aggregate Loading	cum/hr	60/25	Hour	2,957	1,201	695	360	229	392	8.27			
P&M-018	Generator	Generation electric energy	KVA	125	Hour	2,281	488	1,090	180	360	163	12.96			
P&M-019	Generator	Generation electric energy	KVA	63	Hour	1,289	260	617	120	204	87	7.34			
P&M-020	GSB Plant	Producing GSB	ccm	40	Hour	2,257	1,302	300	120	99	436	0.00	25.00		Electricity
P&M-021	Hot Mix Plant	DBM/BM/SDC/Premix	ton/hr	120	Hour	78,247	4,026	54,342	600	17,933	1,346	0.00	325.00	600.00	Electricity+Oil
P&M-022	Hot Mix Plant	DBM/BM/SDC/Premix	ton/hr	100	Hour	64,921	3,315	45,035	600	14,862	1,109	0.00	250.00	500.00	Electricity+Oil
P&M-023	Hot Mix Plant	DBM/BM/SDC/Premix	ton/hr	60	Hour	40,060	2,131	27,621	480	9,115	713	0.00	200.00	300.00	Electricity+Oil
P&M-024	Hot Mix Plant	DBM/BM/SDC/Premix	ton/hr	40	Hour	26,888	1,658	18,283	360	6,033	554	0.00	170.00	200.00	Electricity+Oil
P&M-025	Hot Mix Plant	DBM/BM/SDC/Premix	ton/hr	20	Hour	14,122	947	9,487	240	3,131	317	0.00	125.00	100.00	Electricity+Oil
P&M-026	Hydraulic Chips Spreader	Surface dressing	sqm/hr	1500	Hour	4,444	1,877	1,143	360	377	645	13.60			
P&M-027	Hydraulic Excavator	Soil Excavation	cum/hr	60	Hour	3,570	1,716	767	240	253	594	9.12			
P&M-028	Backhoe (0.2 bucket)	Backhoe Excavation	cum/hr	26	Hour	2,006	581	671	300	222	189	7.99			
P&M-029	Integrated Stone Crusher	Crushing of Spalls	ton/hr	100	Hour	1,886	977	257	240	85	327	3.06			
P&M-030	Integrated Stone Crusher	Crushing of Spalls	ton/hr	200	Hour	2,931	1,465	463	360	153	490	5.51			
P&M-031	Kerb Casting Machine	Kerb making	RM/hr	80	Hour	1,522	710	206	300	68	238	2.45			
P&M-032	Mastic Cooker	Mastic wearing coat	ton/hr	1	Hour	2,302	95	1,500	180	495	32	1.15	125.00	5.00	Electricity+Oil
P&M-033	Mechanical Broomer Hydr	Surface cleaning	sqm/hr	1250	Hour	2,020	877	430	240	142	288	5.12			
P&M-034	Motor Grader	Clearing/Spreading/GSB/	cum/hr	30/200/50/	Hour	3,618	1,604	777	360	257	525	9.25			
P&M-035	Mobile slurry seal equipment	Mixing and laying slurry s	sqm/hr	2700	Hour	2,283	877	583	300	192	288	6.94			
P&M-036	Paver finisher hydrostatic	Paving of DBM/BM/SDC/	cum/hr	40	Hour	5,231	2,505	1,166	300	385	833	13.87			
P&M-037	Paver finisher mechanical	Paving of DBM/BM/SDC/	cum/hr	30	Hour	4,775	2,357	972	300	321	783	11.56			
P&M-038	Piling rig with Bentonite pu	0.7 m boring attachment	RM/hr	2 to 3	Hour	2,222	814	583	360	192	272	6.94			
P&M-039	Pneumatic Road Roller	Rolling of asphalt surface	cum/hr	25	Hour	3,319	1,552	689	240	227	527	8.19			


 दिनेश नाथ श्रेष्ठ
 महानिरीक्षक

Sr. No.	Description of machine	Activity/ Usages	Capacity/ output	Output	Unit	Rate (Rs/hr)	Ownership Charge (Rs/hr)	Operation Charges (Rs/hr)				Fuel (L/hr)	Electricity (Units/hr)	Fuel Oil (Heating) (L/hr)	Remarks
								Fuel/ Electricity	Operators (Crew)	Servicing (FOG)	Maintenance				
P&M-040	Pot hole repair machine	Repair of potholes	cum/hr	4	Hour	2,283	877	583	300	192	288	6.94			
P&M-041	Prestressing jack with pump	Stressing of steel wire/stands			Hour	774	326	120	180	40	109	0.00	10.00		Electricity
P&M-042	Ripper (tractor attachment)	Scarifying	cum/hr	40	Hour	93	24	-	60	-	8	0.00			
P&M-043	Rotavator (tractor attachment)	Scarifying	cum/hr	25	Hour	82	17	-	60	-	6	0.00			
P&M-044	Road Marking machine	Road marking	sqm/hr	100	Hour	1,004	395	168	360	55	25	0.00			
P&M-045	Smooth Wheeled Roller	Soil compaction/ BM con	cum/hr	70/25	Hour	1,608	437	527	300	174	143	6.27			
P&M-046	Tandem Road Roller	Rolling of asphalt surface	cum/hr	30	Hour	1,704	592	461	300	152	198	5.49		2.00	
P&M-047	Tipper 5 cum	Transportation of soil, GS	cum/hr	5.5	Hour	1,454	300	580	240	191	95	6.90			
P&M-048	Transit mixer 4.0/4.5 cum	Transportation of concrete	cum/hr	4.5	Hour	1,675	542	494	240	163	188	5.88			
P&M-049	Transit mixer 4.0/4.5 cum	Transportation of concrete	cum/hr	4.5	ton.km	572	542	16	7	0	5	6.75			
P&M-050	Tractor	Pulling	HP	50	Hour	1,110	248	378	240	125	81	4.50			
P&M-051	Tractor with Rotavator	Tractor+Rotavator			Hour	1,133	265	378	240	125	87	4.50			
P&M-052	Tractor with Ripper	Tractor+Ripper			Hour	1,142	272	378	240	125	90	4.50			
P&M-053	Truck 5.5 cum per 10 ton	Material transport	cum	20	km	88	25	40	12	1	8	9.46			
P&M-054	Truck 5.5 cum per 10 ton	Material transport	cum	4.5	Hour	2,014	496	796	240	263	165	9.46			
P&M-055	Truck 5.5 cum per 10 ton	Material transport	cum	200	ton.km	9	2	4	1	0	1	9.46			
P&M-056	Vibratory Roller 8 ton	Earth or soil/GSB/WBM	cum/hr	100/60/60	Hour	2,413	1,133	459	240	151	387	5.46			
P&M-057	Water Tanker	Water transport	capacity KL	6	Hour	1,806	529	605	240	200	177	7.20			
P&M-058	Air Compressor with Pneum	For cutting hard clay			Hour	1,125	539	194	180	64	149	2.30			
P&M-059	Batch type cold mixing plant		ton/hr	75	Hour	2,387	592	840	480	277	198	0.00			
P&M-060	Cold milling machine		cum/hr	20	Hour	2,353	715	775	360	256	248	9.22			
P&M-061	Crane 5 ton capacity				Hour	3,102	1,276	832	240	275	437	9.90			
P&M-062	Crane 10 ton capacity				Hour	4,057	1,768	984	300	325	602	11.70			
P&M-063	Crane (15 ton)	Crane (15 ton)	ton	15	Hour	4,593	1,989	1,135	360	375	682	13.50			
P&M-064	Crane (20 ton)	Crane (20 ton)	ton	20	Hour	5,139	2,275	1,211	420	400	781	14.40			
P&M-065	Crane (40 ton)	Crane (40 ton)	ton	40	Hour	6,449	3,126	1,362	360	449	1,073	16.20			
P&M-066	Crane with grab 0.75 cum	grab 0.75 cum	cum		Hour	3,295	1,419	832	240	275	486	9.90			
P&M-067	Crane with grab 0.75 capacity		cum		Hour	1,468	572	344	240	114	198	4.10			
P&M-068	Drum mix plant for cold mixes of appropriate capacity		cum		Hour	1,718	715	387	240	128	248	4.61			
P&M-069	Epoxy Enjection gun		cum		Hour	802	323	180	180	59	59	0.00	180.00		Electricity
P&M-070	Generator	33 KVA			Hour	931	172	436	120	144	59	5.18			
P&M-071	Generator	100 KVA			Hour	1,858	286	1,017	120	336	99	12.10			
P&M-072	Generator	250 KVA			Hour	4,488	644	2,542	240	839	223	30.24			
P&M-073	Joint cutting machine	for rigid pavement			Hour	1,268	572	194	240	64	198	2.30			
P&M-074	Jack for lifting				Hour	134	11	-	120	-	4	0.00			
P&M-075	Piling rig including double acting pile driving hammer				Hour	5,710	2,622	1,453	400	479	756	17.28			
P&M-076	Plate Compactor				Hour	289	72	54	120	18	25	0.65			
P&M-077	Snow blower equipment				Hour	2,761	429	1,281	480	423	149	15.23			
P&M-078	Truck Trailer 30 ton		cum		Hour	4,497	1,267	1,776	360	586	429	21.12			
P&M-079	Truck Trailer 30 ton		ton.hr		ton.km	7	2	3	1	0	1	21.12			
P&M-080	Vibrating pile driving hammer complete with accessories				Hour	6,171	2,979	1,453	400	479	859	17.28			
P&M-081	Wet mix plant 75TPH				Hour	1,621	644	387	240	128	223	4.61			

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