

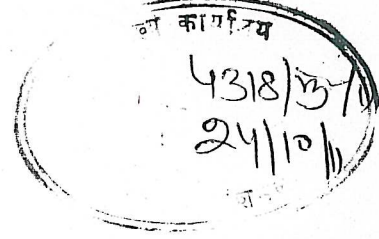
Himachal Pradesh
IPH Department

No: IPH-WS&SC-WA-Misc /2011- 13526-29

Dated:- 22-10-11

To

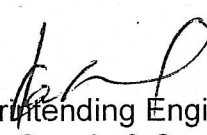
✓ The Commissioner,
Municipal Corporation,
Shimla-171001.



Subject:- To prepare RFP Documents to Build, Refurbish, Rehabilitate, Operate & Maintain the Water supply & Sewerage system of Shimla City approved under JNNURM being executed on PPP Project Mode.

Kindly refer to your office letter No. MCS/WS&SD/COMM/2011-3154 dated 3.10.2011 on the subject cited above. The requisite information in respect of point No. 1&2 pertaining to this circle is enclosed herewith for taking further necessary action at your end please.

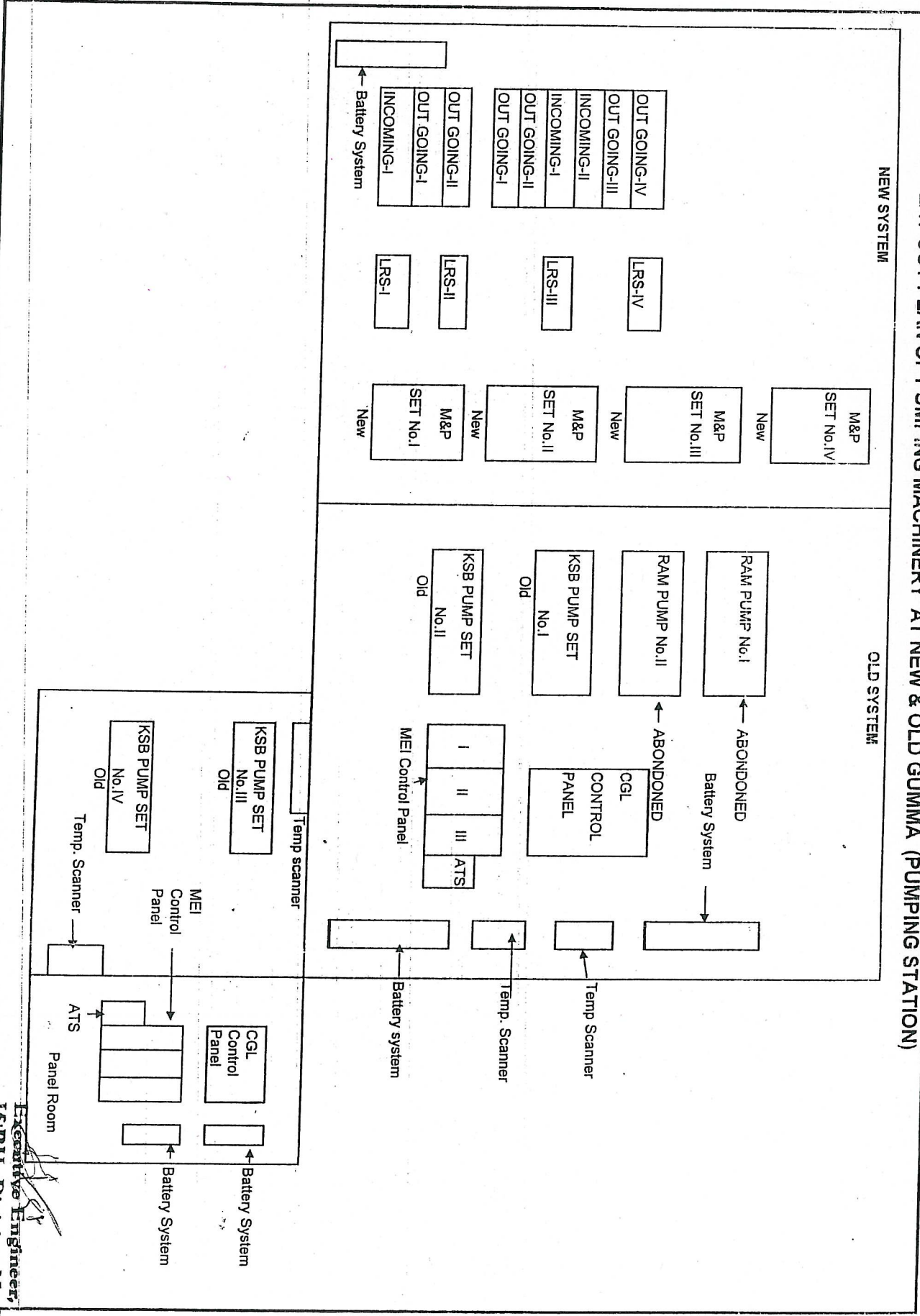
Encl:- As above


Superintending Engineer,
Water Supply & Sewerage Circle,
Shimla-171003.

- ME
Comm
24/10/11
1. Copy to Chief Engineer(S/Z),IPH Department, U.S. Club Shimla-1 for information please.
 2. Copy to Executive Engineer, IPH Division No.II, Shimla-3 with reference to his letter No. 9059 dated 13.10.2011 for information.
 3. Copy to Executive Engineer, Water Supply & Sewerage Division New Shimla-9 with reference to his letter No. 1473 dated 20.10.2011 for information.


Superintending Engineer,
Water Supply & Sewerage Circle,
Shimla-171003

LAY OUT PLAN OF PUMPING MACHINERY AT NEW & OLD GUMMA (PUMPING STATION)



Executive Engineer,
I&P.H. Division No-II,
Gumma-2

DETAIL OF PUMPING MACHINERY AT GUMMA(PUMPING STATION),NEW

PUMP						MOTOR					STARTER			PANEL		
Sr. No./ Pump Sr. No.	Year of Install.	Make	Head Mtrs.	Discharge M ³	Motor Sr. No.	Year of Install.	Make	KV/HP	RPM	Make	Year of Install.	Panel Sr. No.	Year of Install.	Make	Type	
New Gumma Scheme																
1	971470/D-2	1997-98	Mather & Platt	700 Mtrs.	228M ³ /Hours	47199A402-II-02	1997-98	BHEL New Model	690/925	1485 to 1500	Enter pricing Eng. Bhopal	9375VG/8498 VG	CGI	UNI VAC		
2	81175/D-2	1996	Mather & Platt	700 Mtrs.	228M ³ /Hours	47199A402-II-01	1997-98	BHEL New Model	690/925	1485 to 1500	do	9375VG/8399 VG	CGI	UNI VAC		
3	771051/D-4	1981-82	Mather & Platt	700 Mtrs.	228M ³ /Hours	4000787/-1-04	1981-82	BHEL Old Model	690/925	1485 to 1500	do	Out going	CGI	UNI VAC		
4	971470/D-4	1997-98	Mather & Platt	700 Mtrs.	228M ³ /Hours	4000787/-1/03	1981-82	BHEL Old Model	690/925	1485 to 1500	do	2718/79			Jyoti make out going No. I) 2795/79 II. 2794/79. III. 2792/79 IV. 2793/79	
SPARE PUMP																
1	941470/D-1	1996	Mather & Platt	700	228M ³ /Hours	4000858/-1/04	1981-82	BHEL Old Model	690/925	Repaired by M/S Enco, Mohli. Yet to be tested. Some one fault in the rotor.						
2	951175/D-1	1996	Mather & Platt	700	228M ³ /Hours	45278A-402-II-01	1946	BHEL New Model	690/925	Slip ring replaced by the M/S Enco, Mohli at works shop in Mohli S.Mos. Bearings are required to start the motor.						
3	771051/D-2	1981-82	Mather & Platt	700	228M ³ /Hours	4000885/-1-01	1981-82	BHEL Old Model	690/925	Motor is laying with M/S Sun Beam Engineer, Okla, New Delhi for settlement of tender negotiation.						
Note:-																
Note:- Pump bearings Sr. No 771051/D2 is laying Sun Beam Engineer Okla New Delhi (Work awarded to the aforesaid contractor)																
Foot valve		VALVE			CAPACITOR			CABLE			TRANSFORMER			Total working hour		Remarks
	18	Sluice Valve	Non Return Valve	Year of Install	Rating	Size	Amp.	Year of Install	Capacity	Earthing.	Pump	Motor				
New Gumma Scheme																
1	250x300mm	200mm	200mm	21	23	24	25	26	27	28	29	30	31			
2	250x300	200mm	200mm											Installed but not in order since long time.		
3	250x300	200mm	200mm											-do-		
4	250x300	200mm	200mm											-do-		
		Butter Fly												N/A		
														N/A		
														N/A		
														N/A		


Executive Engineer,
ERP.H. Division No-II,
Gumma-3

- i) Bye pass valve 20mm dia in delivery valve
- ii) do
- iii) do
- iv) do

DETAIL OF PUMPING MACHINERY AT GUMMA(PUMPING STATION).OLD

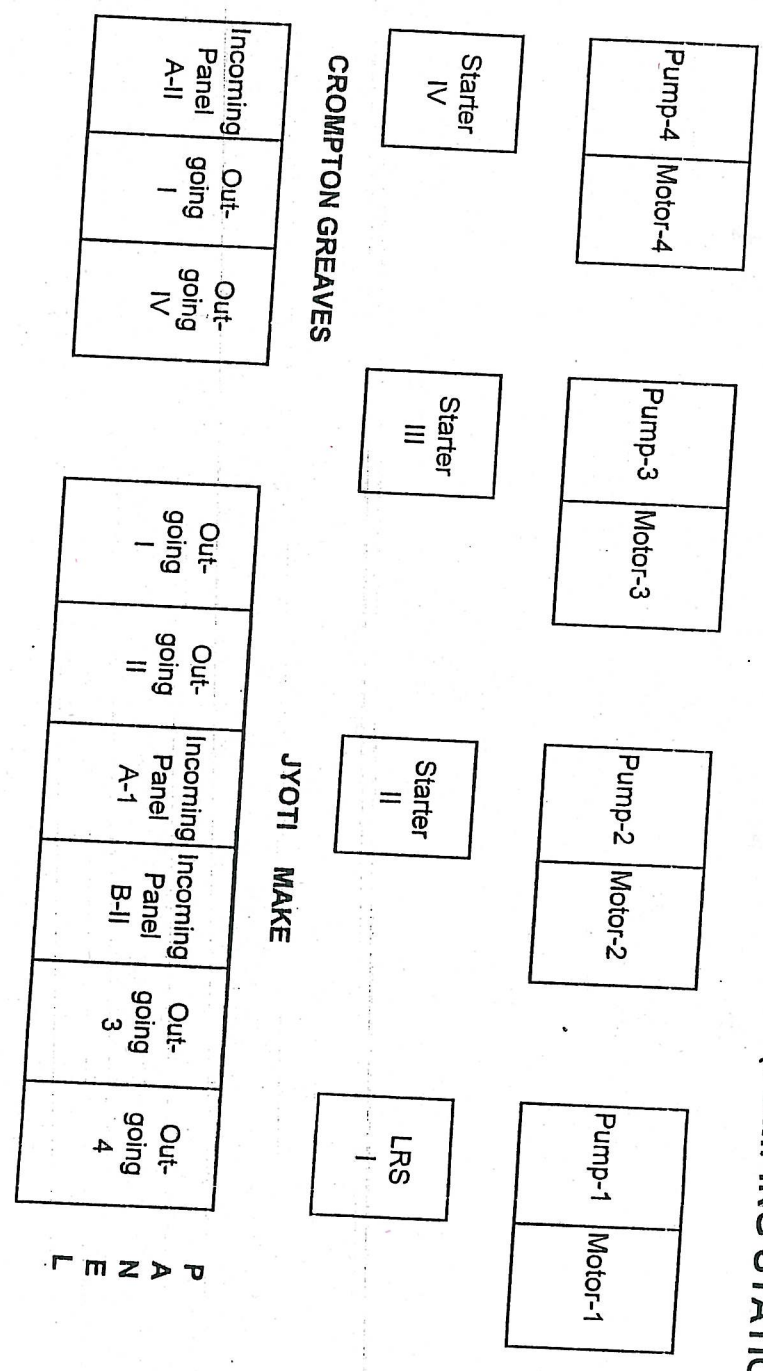
PUMP																							
Sr. No.	Pump Sr. No.	Year of Install.	Make	Head Mtrs.	Discharge M ³	Motor Sr. No.	Year of Install.	MOTOR Make	KWH/HP	RPM	STARTER Make	Year of Install.	PANEL Sr. No.	Year of Install.	Make	Type							
Old Gumma Scheme																							
1	18054	6.3.2001	KSB HGB4/10	1480	206	40036 CA01M/01	6.3.2001	BHEL	1250/1680	2900/c	29575	12	1165.7 V.G.	1998	CGI	UNIVAC							
2	9718061	1.1.2000	KSB HGB4/10	1480	206	UFC 394001	1998	CGI	1250/1680	2900/c	29575	13	92.343	1998	MEI	ACIR							
3	9219011	1998	KSB HGB4/10	1480	206	47262A402-II-01	1.1.2000	BHEL	1250/1680	2900/c	29575	14	9632 V.G.		CGI	UNIVAC							
4	9419021	1995	KSB HGB4/10	1480	206	UFC 393054	1995	CGI	1250/1680	2900/c	29575	15			CGI	UNIVAC							
VALVE																							
Foot valve		Sluice Valve	Non Return Valve	Year of Install.		CAPACITOR		CABLE		TRANSFORMER		STARTER		PANEL		Remarks.							
18		19	20	21		22		23		24		25		26		27		28		29			
Old Gumma Scheme																							
Suction side		200mm	200mm	200mm		200mm		200mm		200mm		200mm		200mm		200mm		200mm		200mm		200mm	
250mm dia		250	250	250		250		250		250		250		250		250		250		250		250	

11 KVA/
2200 Volts

Pressure release valve in 40mm dia
do
do
do
do

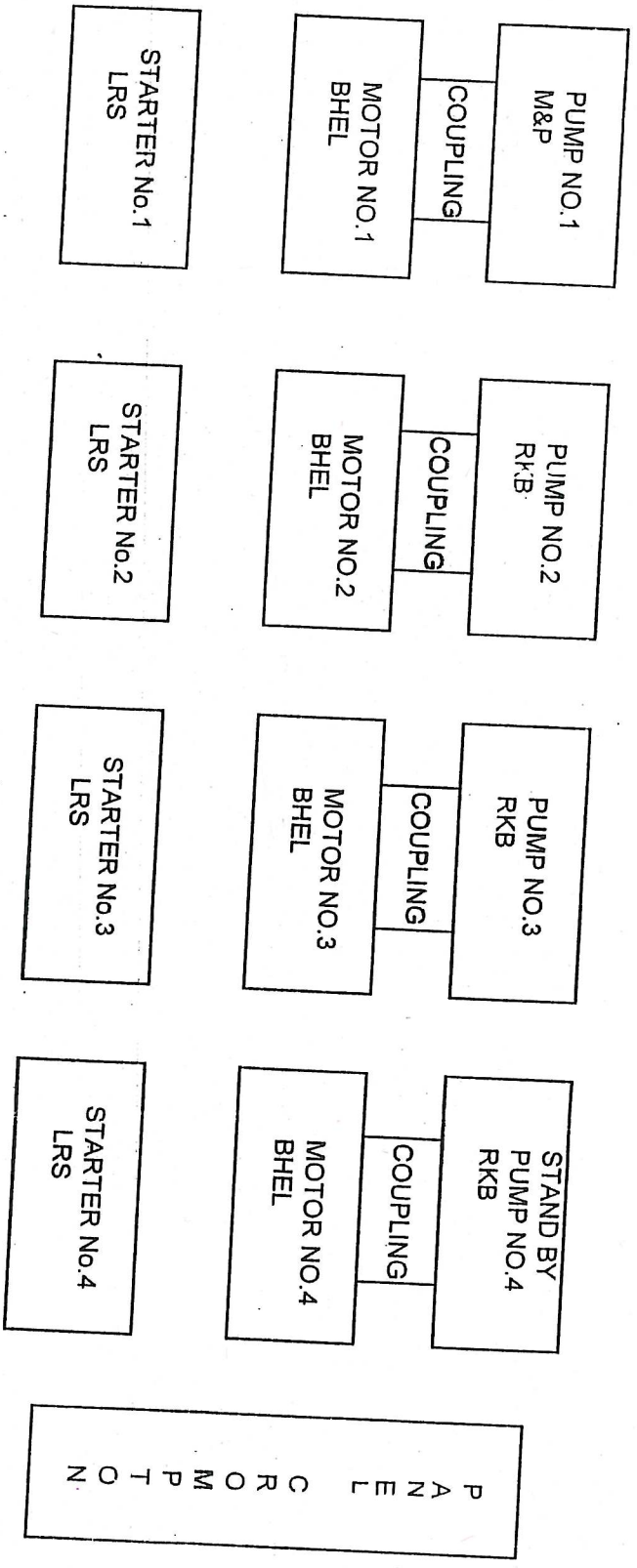
Executive Engineer,
I&PH. Division No-II,
Gumma-3

LAY OUT PLAN OF PUMPING MACHINERY AT DRABLA (PUMPING STATION)



[Signature]
Executive Engineer,
I.E.P.H. Division No-II,
Drabla-3

LAY OUT PLAN OF PUMPING MACHINERY AT ASHWANI KHAD (PUMPING STATION)



[Signature]
Executive Engineer,
I.P.H. Division No. II,
Bhubaneswar-3

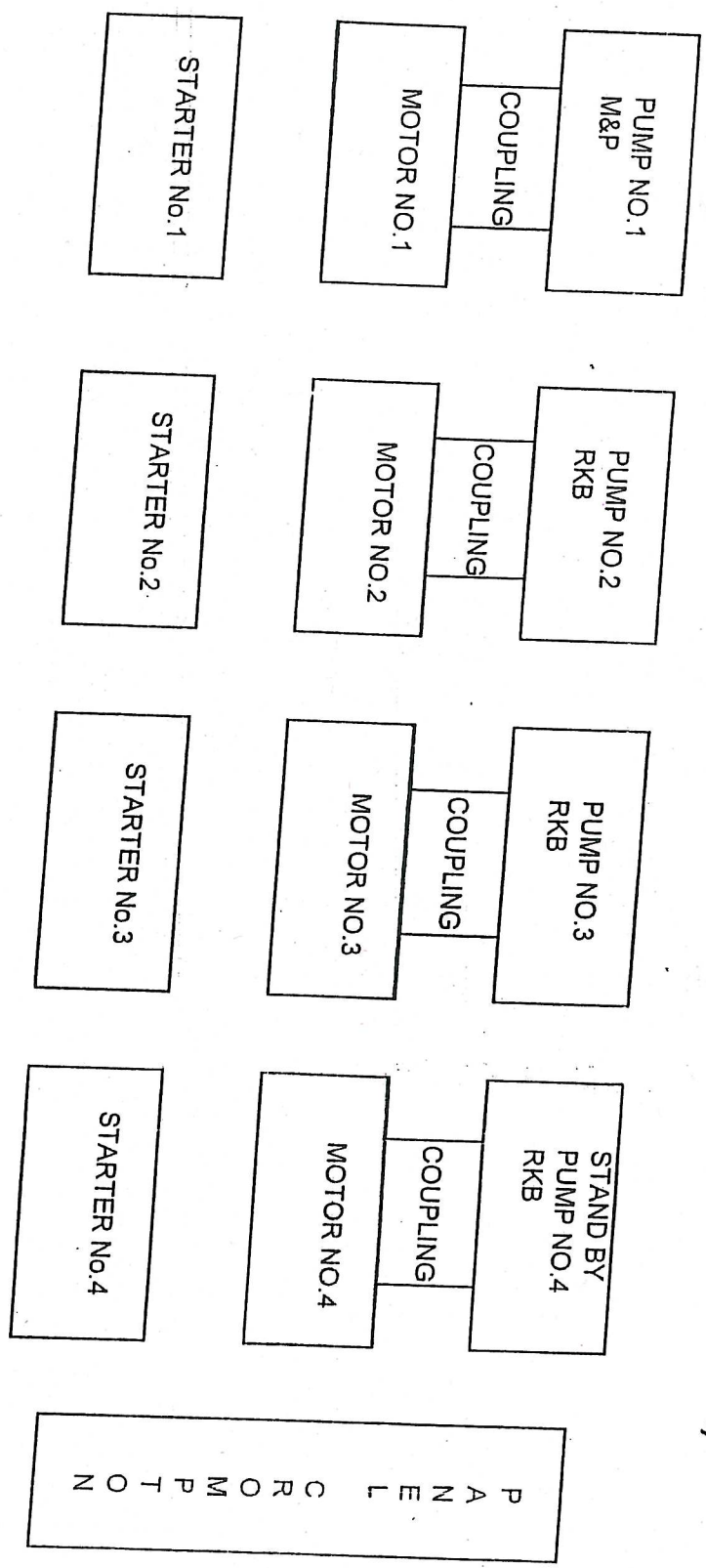
DETAIL OF PUMPING MACHINERY AT ASHWANI KHAD (PUMPING STATION).

Sr. No.	Pump Sr. No.	Year of Install.	Make	Head Mtrs.	Discharge M ³	Motor Sr. No.	Year of Install.	Make	KW/HP	RPM	Make / No	Year of Install.	Panel Sr. No.	Year Install.	Make	Type
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	841247-D/15	1992	Mather & Platt	407 Mtrs	225m ³ /hours	48021A-402-11-06	1992	BHEL	425/550 HP	1482	Perimal Engg./124/88	1992	42023-G	1992	Cromp. G	ALA-1XL
2	12960060021	2006	RKB 150/34	407 Mtrs	225m ³ /hours	48021A-402-11-05	1992	BHEL	425/550 HP	1482	Perimal Engg./127/88	1992	42024-G	1992	Cromp. G	ALA-1XL
3	12960060014	2006	RKB 150/34	407 Mtrs	225m ³ /hours	48021A-402-11-07	1992	BHEL	425/550 HP	1482	Perimal Engg./122/88	1992	42025-G	1992	Cromp. G	ALA-1XL
4	12960060020	2006	RKB 150/34	407 Mtrs	225m ³ /hours	48021A-402-11-04	1992	BHEL	425/550 HP	1482	Perimal Engg./125/88	1992	42026-G	1992	Cromp. G	ALA-1XL
5	12960050019	2006	RKB 150/34	407 Mtrs	225m ³ /hours	Spare pump for replacement of Sr. No.1										
VALVE																
Sr. NO	Foot Valve	Sluice Valve.	Non Return Valve	Year of Install	Year of Install	Year of Install	Rating	Size	Amp.	Year of Install	Capacity	Earthing.	Total working hour	Pump	Motor	Remarks
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
1	6"	8"	6"	1992	1992	1992	190 KVR	IS 692 lead sheathed								
2	6"	8"	6"	1992	1992	1992	190 KVR									
3	6"	8"	6"	1992	1992	1992	190 KVR									
4	6"	8"	6"	1992	1992	1992	190 KVR									

Expect pumps complete replacement of other equipments is expect by 2007


 Executive Engineer,
 I&PH, Division No-II,
 Bhubaneswar-3

LAY OUT PLAN OF PUMPING MACHINERY AT KAWALAG (PUMPING STATION)



[Signature]
ENGINEER IN CHARGE
KAWALAG PUMP STATION
No. 11

DETAIL OF PUMPING MACHINERY AT KAWALAG (PUMPING STATION).

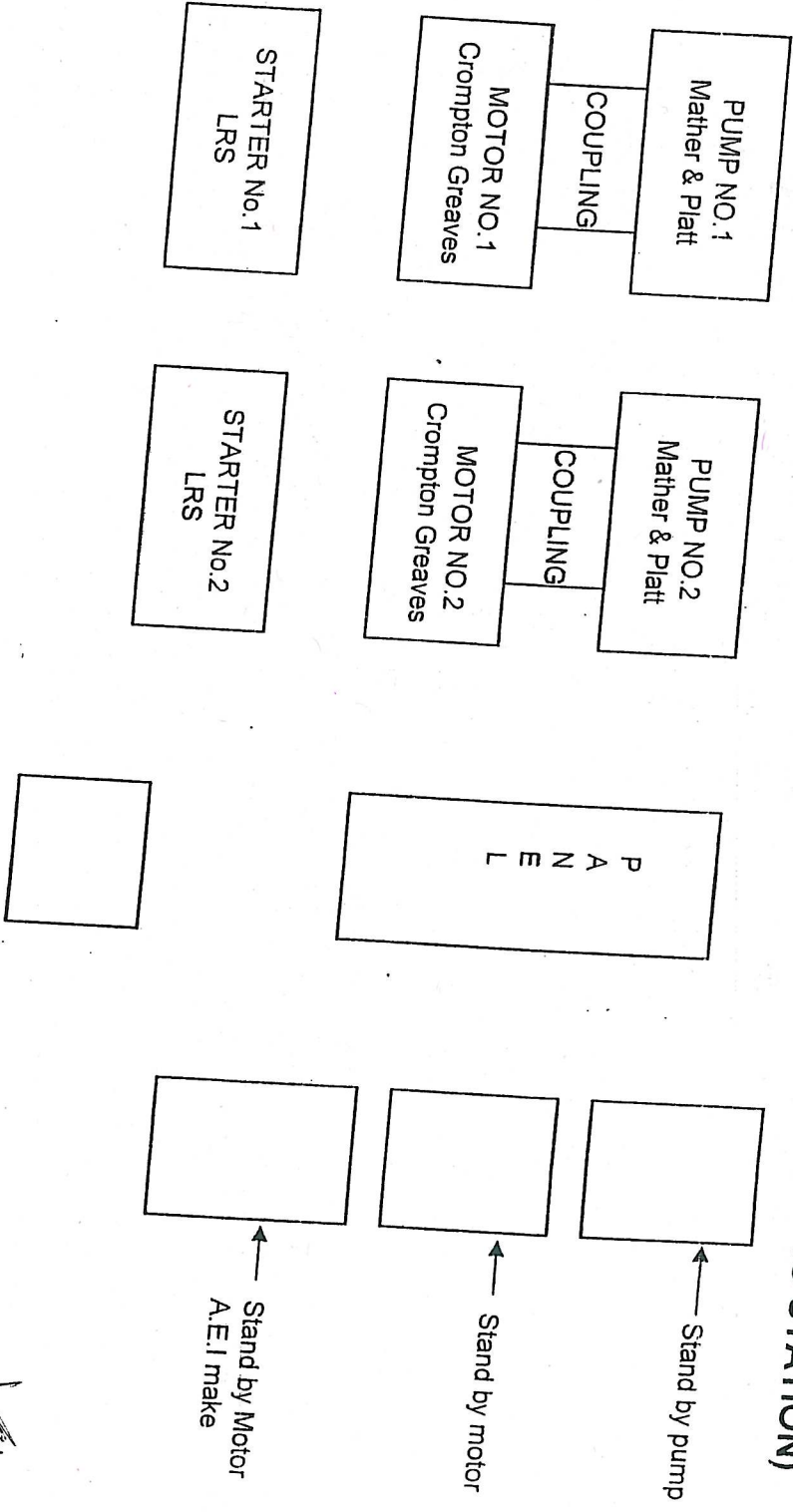
PUMP													MOTOR					STARTER			PANEL		
Sr. No.	Pump Sr. No.	Year of Install.	Make	Head Mtrs.	Discharge M ³	Motor Sr. No.	Year of Install.	Make	KW/HP	RPM	Maker/Sr. No.	Year of Install.	Panel Sr. No.	Year of Install.	Make	Type							
Stage 2nd Kawalag																							
1	871248-D-14	1992	Mather & Platt	407 Mtrs	225m ³ /hours	48021A-402-11-8	1992	BHEL	425/550 HP	1475	Perfinal Engrs./ 128/88	1992	42028-G	1992	Crompton G.	ALA-1XL							
2	12960060024	2006	RKB 150/34	407 Mtrs	225m ³ /hours	45026A-402-11-01	1992	BHEL	425/550 HP	1475	Perfinal Engrs./ 120/86	1992	42028-G	1992	Crompton G.	ALA-1XL							
3	12960060023	2006	RKB 150/34	407 Mtrs	225m ³ /hours	48021A-402-11-02	1992	BHEL	425/550 HP	1475	Perfinal Engrs./ 123/88	1992	42030-G	1992	Crompton G.	ALA-1XL							
4	12960060025	2006	RKB 150/34	407 Mtrs	225m ³ /hours	45028 A-402-11-02	1992	BHEL	425/550 HP	1475	Perfinal Engrs./ 121/88	1992	42031-G	1992	Crompton G.	ALA-1XL							
5	12960060026	2006	RKB 150/34	407 Mtrs	225m ³ /hours	Spare pump for replacement of Sr. No.1																	
Spare and old Pumps at stage 1st & 2nd																							
1	871247-D/4	1992	Mather & Platt	407 Mtrs	225m ³ /hours	48021A-402-11-03	1992	BHEL	425/550 HP														
2	871247-D/3	1992	Mather & Platt	407 Mtrs	225m ³ /hours	45026-A-402-11-02	1992	BHEL	425/550 HP														
3	871247-D/2	1992	Mather & Platt	407 Mtrs	225m ³ /hours	old																	
4	871248-D/3	1992	Mather & Platt	407 Mtrs	225m ³ /hours	old																	
5	871247-D/4	1992	Mather & Platt	407 Mtrs	225m ³ /hours	old																	
6	871247-D/1	1992	Mather & Platt	407 Mtrs	225m ³ /hours	old																	
7	871248-D/4	1992	Mather & Platt	407 Mtrs	225m ³ /hours	old																	
8	871248-D/1	1992	Mather & Platt	407 Mtrs	225m ³ /hours	old																	
VALVE																							
Sr. No.	Foot Valve	Sluice Valve.	Non Return Valve	Year of Install.	Year of Install.	Rating	Size	Amp.	Year of Install.	Capacity	Earthing.	Total working hour	Motor	Remarks									
18	19	20	21	22	23	24	25	26	27	.28	29	30	31	32									
Stage 2nd Kawalag																							
1	6"	8"	6"	1992	1992	190 KVR	IS 692 lead sheathed																
2	6"	8"	6"	1992	1992	190 KVR																	
3	6"	8"	6"	1992	1992	190 KVR																	
4	6"	8"	6"	1992	1992	190 KVR																	

1. Earthing in stage 1st, 2nd & 3rd was done in 1992 is also require immediate replacement
2. Lighting arrester are not installed till date required immediate installation

Except pumps complete replacement of other equipments is expect by 2007


Executive Engineer,
ERP, Division No-II,
Shimla-31

LAY OUT PLAN OF PUMPING MACHINERY AT KASUMPTI (PUMPING STATION)



[Signature]
Executive Engineer,
T&PH, Division No-II,
S.No. 3 (A)

DETAIL OF PUMPING MACHINERY AT KASUMPTI (PUMPING STATION).

Sr. No.	Pump Sr. No.	Year of Install.	PUMP			Head Mtrs.	Discharge M ³	Motor Sr. No.	Year of Install.	MOTOR			STARTER		PANEL		
			Make	Year of Install.	Year of Install.					Make	KW/HP	RPM	Maker/ Sr. No.	Year of Install.	Pannel Sr. No.	Year Install	Make
Stage 3rd Kasumpti																	
1	871248-D/2	1992	Mather & Platt	1992	155 Mtrs	332m ³ /hours	1992	1992	Crompton. G.	225/300 HP	1475	Perimal Engg./128/88	1992	89155	1992	Masoori Elect. Indst.	
2	941145-D/1	1992	Mather & Platt	1992	155 Mtrs	332m ³ /hours	1992	1992	Crompton G.	225/300 HP	1475	Perimal Engg./128/88	1992	89156	1992	Masoori Elect. Indst.	
Spare pump.																	
3	871249/D-1	1994	Mather & Platt	1994	155 Mtrs	332m ³ /hours	1996	1996	GEC	325 HP	1475						
Stage 3rd Kasumpti																	
1	Foot Valve	Sluice Valve.	Non Return Valve	Year of Install.	CAPACITOR			Year of Install.	Rating	CABLE		TRANSFORMER		PANEL			
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Total working hour Pump Motor		Remarks

Except pumps complete replacement of other equipments is expect by 2007


Executive Engineer,
W.P.H. Division No-II,
Simla-3

DETAIL OF PUMPING MACHINERY AT CHAIR (PUMPING STATION).

Sr. No.	PUMP				MOTOR				STARTER			PANEL				
	Pump Sr. No.	Year of Install.	Make	Head Mtrs.	Discharge M ³	Motor Sr. No.	Year of Install.	Make	KW/HP	RPM	Make	Year of install.	Pannel Sr. No.	Year Install	Make	Type
Chair pumping station																
1	919007751	1995	KSB	950M	22000 G/LN/Hr	950M	1995	GEC	500/670	2980		13	14	1995	Kilburn Control	
2	819020751	1995	KSB	950M	22000 G/LN/Hr	950M	1995	GEC	500/670	2980		13	14	1995	Kilburn Control	
Chair pumping station																
1																
VALVE																
	Foot Valve	Sluice Valve	Non Return Valve	Year of Install	CAPACITOR				CABLE		TRANSFORMER		Total working hour		Remarks	
18	19	20	21	22	Year of Install	Rating	Size	Amp.	Year of Install	Capacity	Earthing	Pump	Motor			
		8"	6"	6"	23	24	25	26	27	28	29	30	31	32		

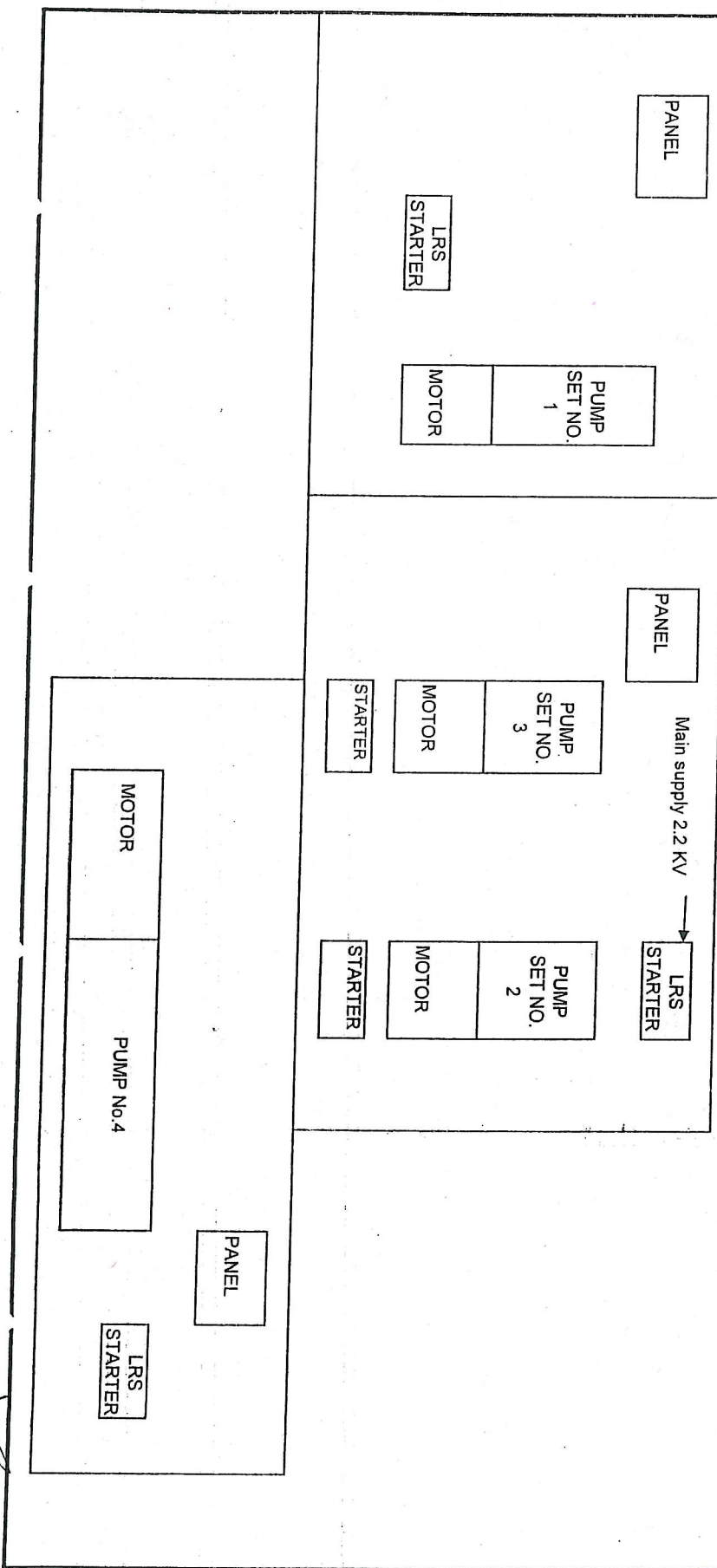
IS 692 lead sealed

Note:- The aspect which will have to be given the top priority is the Operation and Maintenance of the system. Instances of poor operation and maintenance practices have on many occasions largely contributed to decreased utility, or even to in early failure or capital investment have been wholly or partially lost, or premature replacement of equipment before they have been in operation for full span of their useful lives. Therefore proper operation and maintenance is the answer for deriving the benefit continuously from the investment. Until or unless the operation and maintenance crews are not managed to deploy in all pump houses the designed life of pumping machinery can not be attained. Moreover prior to install the new pumping machinery in all pumping station top priority to the operation and maintenance crews should be given to ascertain for effective and efficient services. Hence reliability and quality services.

Replacement of complete pumping machinery including pannel is expedited by 2010. On stand by pumping set including pannel unit is the immediate required for reliable service of water supply.


Executive Engineer,
I&PH. Division No-II,
Bhimla-3

LAY OUT PLAN OF PUMPING MACHINERY AT CHEROT (PUMPING STATION)



[Signature]
Executive Engineer,
I&PH. Division No-II,
Srinagar-34

DETAIL OF PUMPING MACHINERY AT CHEROT (PUMPING STATION).


PUMP										MOTOR					STARTER			PANEL		
Sr. No.	Pump Sr. No.	Year of install.	Make	Head Mtrs.	Discharge M ³	Motor Sr. No.	Year of install.	Make	KW/HP	RPM	Make	Year of install.	Panel Sr. No.	Year install	Make	Type				
1	50368	1984	Kirlosker	414	225	KCW	1984	Kirlosker	450/600	1482	E.E. Enter Eng.47 Bhopal	1984		1984	Model stv P12200/110 VNDKD-DIP IS 1246-83 (AE)	SR-144 Class (1.0)				
2	OX2142	1939	Harland Alloa Scotland	414	128	2143/4	1939	Harland Alloa Scotland	200/265	1470	English Elect. Co.London No. 5H4398/1	1939	OCB L 22778	1939	BTH	B.P-11 Volts2200. Ats.No. 69391				
3	082102	1960	KSB Germany	414	170		1960	Siemens Sckurat	370/495	1475	Siemen Sckurat Ger. N465034	1960	526/81 PTR 2.2 KV/110V	1960	Sieman Sck S.R. 526/81-PTR 2.2 KV/110 Volts.	ALA/XL 3300 50086 G 400				
4	RKB 150/34	1998	BHEL Kirlosker	414	244	IRST451-4D	1998	BHEL	448/600	1474	EE Entr. Eng. Bhopal. 82109	1998	ALA/XL 3300 50086 G 400	1998	Crompton Greaves ALA/XL 3300 50086 G 400					
VALVE										CAPACITOR			CABLE		TRANSFORMER					
Sr. No.	Foot valve	Sluice Valve.	Non Return Valve	Year of install	Year of install	Year of install.	Rating	Size.	Amp.	Year of install	Capacity	Earthing.	Remarks.							
1	8" dia	6" dia	6" dia	1984	1995	1995	190 KVAR	IS 692	200	27	28	29	30							
2	7" dia	5" dia	5" dia	1939	1995	1995	66KVAR	95MM	85											
3	7" dia	5" dia	5" dia	1960	1995	1995	190 KVAR	95MM.	120											
4	6" dia	6" dia	6" dia	1998	Not install.	Not install.														

In door 200 KVA
 In door 2.2/110V 10KVA
 Out door
 333.3 KVA
 4 No seach Capacity.
 Out door 2.2/4440 50KW.

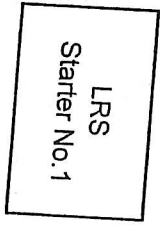
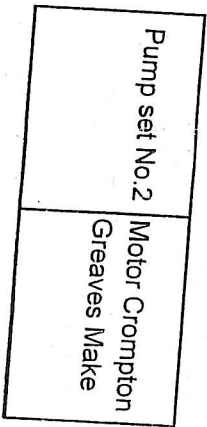
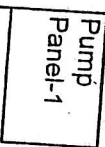
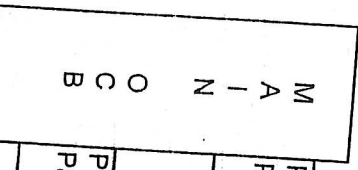
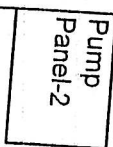
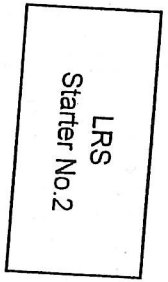
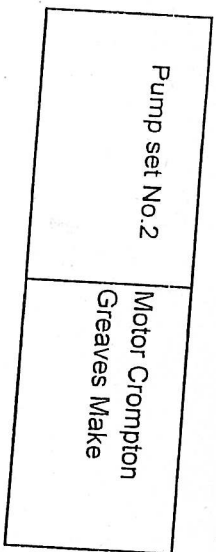
Immediate replacement of whole system.

Immediate replacement of whole system.

Replacement is expected by 2013.


Executive Engineer
EPH. Division No-H.
Bhimla-3

LAY OUT PLAN OF PUMPING MACHINERY AT JAGROTI (PUMPING STATION)



[Signature]
Executive Engineer,
M.P.H. Division No-II,
Jagroti


DETAIL OF PUMPING MACHINERY AT JAGROTI (PUMPING STATION).

Sr. No.	PUMP						MOTOR				STARTER			PANEL		
	Pump Sr. No.	Year of Install.	Make	Head Mtrs.	Discharge W ³	Motor Sr. No.	Year of Install.	Make	KW/HP	RPM	Make	Year of Install.	Pannel Sr. No.	Year of Install.	Make	Type
1	961201-D-1	1998	Mather & Platt.	495	114	MC No. DWMA-400 L 96511	1974	Crompton Greaves	261/350	1470	E.E.47 A Ind. Bhopal 82649	2003	72/167	1974	Mysore Elect. Ind. Bangalore	N-3 Normal current 600
2	961201/D-2	1974	Mather & Platt.	495	114	MC No. HM 2705	1998	Crompton Greaves	261/350	1470	E.E.47 A Ind. Bhopal	1974	73/396	1974	2UG Ltd. Eng. Mysore	N-3 Normal current 600
3	Standby	1974	Mather & Platt.	495	114	MC No. HM 2705	1974	Crompton Greaves	261/350	1470	E.E.47 A Ind. Bhopal	1974				
18	Foot valve	Sluice Valve	Non Return Valve	Year of Install.	Year of Install.	CAPACITOR		CABLE		TRANSFORMER		REMARKS				
19	20	21	22	23	24	25	26	27	28	29	30	Except pump total system require immediate replacement by 2006				
		6" dia	6" dia	1974	2003	115KVAR PVC IS 1554 Sheathed PVC Insulated	1554 Sheathed PVC Insulated	26/1350	1470	E.E.47 A Ind. Bhopal	1974	Except motor total system require immediate replacement by 2006				

Note: The aspect which will have to be given the top priority is the Operation and Maintenance of the system. Instances of poor operation and maintenance practices have on many occasions largely contributed to decreased utility, or even to in early failure or capital investment have been wholly or partially lost, or premature replacement of equipment before they have been in operation for full span of their useful lives. Therefore proper operation and maintenance is the answer for deriving the benefit continuously from the investment. Until or unless the operation and maintenance crews are not managed to deploy in all pump houses the designed life or pumping machinery can not be attained. Moreover prior to install the new pumping machinery in all pumping station top priority to the operation and maintenance crews should be given to ascertain for effective and efficient services. Hence reliability and quality services.

Standby pump and motor require immediate replacement.

Except motor total system require immediate replacement by 2006


 Executive Engineer
 IPH DIVISION NO. II
 Shimla - 3 (H.P.)