

SPECIFIKIMET TEKNIKE

Me posht po paraqesim materialet e propozuara ne preventivin e projektit. Materialet e perdorura duhet te jene te reja ne perputhjet me normat ISO, IEC, EN mallrat nga Europo, USA, Japonia jane perparestore por dhe nga vendet e tjera jane te pranueshme me kusht qe te jene te barsvlereshme me specifikimet teknike dhe plotesimin e standarteve te mesiper.

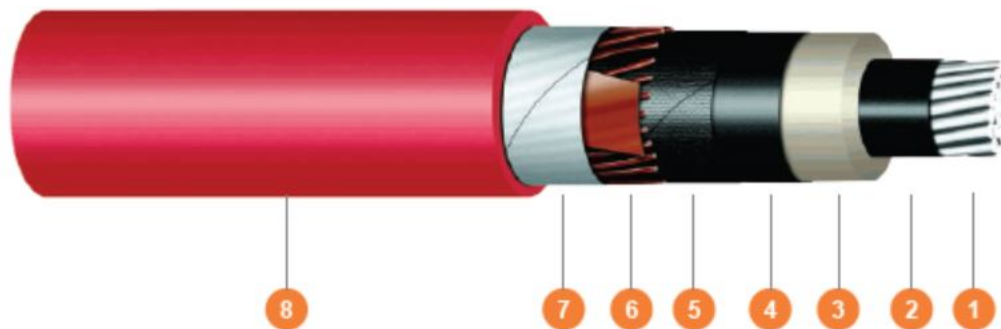
Duke ju referuar renditjes ne preventive po paraqesim specifikimet per materialet e perdorura si me poshte :

OBJEKTI : A.STACIONI POMPAVE MENGEL

I. Instalimet elektro-mekanike ne godinen e stacionit.

1.Linja hyrese kablllore e TM 10kV

1. 4.141/b4.4 F.V. Kabell TU 0.6/10kV alumin 3x35mm² , L = 250M ml 250
nga pika lidhjes ne kabinen e transformatorit 100kVA
ne stacionin e pompave.Fleta IE-08,12,13



- | | |
|--|---|
| 1.Percielles Alumini 1x35mm ² | 5.Shirit gjysem percues |
| 2.Shtrese gjysem percuese | 6.Ekranizimi me percielles bakri dhe shirit bakri |
| 3.Izolimi XLPE | 7.Shirit jo percues |
| 4.Shtresa e jashteme gjysem percuese | 8.Shtrese mborjtese e jashteme pvc |

Perdorimi

Kablli duhet te jete i prodhuar per kushtet e perdorimit te transmetimit te energjise elektrike 6/10kV.Kablli duhet te perdoret i instaluar ne kanal direkt nen toke,beton, ne tubo me materjal jo magnetik si dhe ne ajer.

Te dhenat :

Tensioni nominal	6/10kV	Ngjyra e izolimit	Natyrale
Tensioni proves	24kV	Ngjyra e shtrese mbeshtjelles	E kuqe ose e zeze
Tensioni maksimal	12kV	Materjali kundra zjarrit dhe veteshuars	IEC 60333-1
Temperatura	90 °C	Rezistenca UV	
Temperatura maksimale ne lsh	250 °C	Amballazhimi ne barabane druri	
Temperatura e perdorimit me dore	-35°C- 90°C	Deklarata e plotesimit te standarteve	
Temperatura minimale e shtrirje	-5°C	Certifikata e cilesis.	
Temperatura magazinimit	-25°C		

2. F.V.Shkarkues TL 6/10kV/5kA.Fleta IE-08,13 cope 3

Pershkrimi :

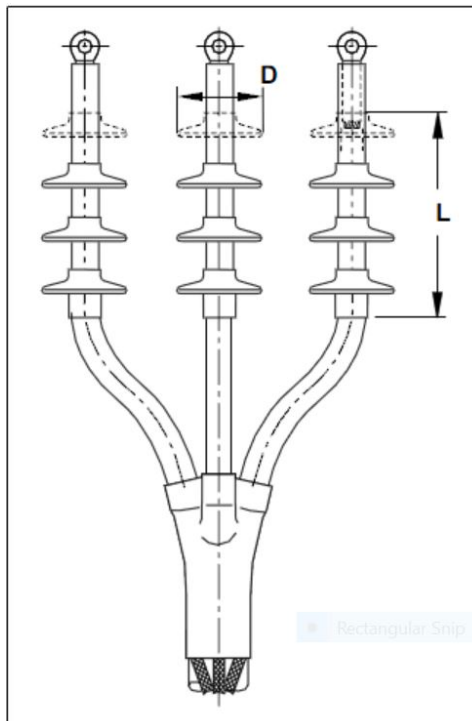
Tipi me metal oksid.Trupi polimer ose porcelain.Shkarkuesimduhet te ckycet kur tensioni eshte me l madhe se tensioni izolimt te paisjeve kabllit dhe transformatorit duhet te jete i paisur me nje stafe mbeshtetese izoluese.



Te dhenat teknike :

Rryma nominale	Tensioni nominal	Tensioni maksimal i vazhdueshem	Lartesia orjentuese
10kA	10kV	8.2kV	188mm

3.F.V.Terminale vendosje te jashteme 6/10kV 1x35mm2. Fleta IE-08,13 cope 3



Tensioni nominal	Seksioni	Gjatesia L mm	Diametri mm
6/10kV	25-95	410	85mm

3.1. Morset per dy perciellsa per degezim linje ajrore me shtrengim me bullon

Morseta per lidhje te degezimeve alumin-alumin ne linja ajrore.

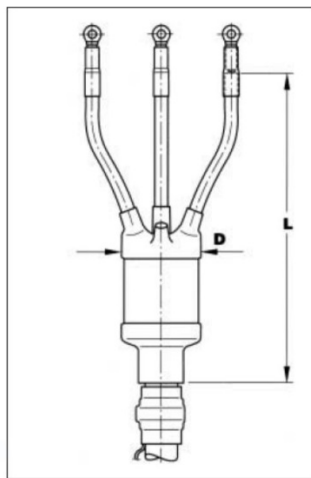
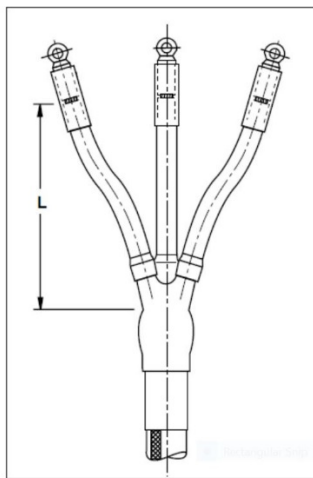
Te dhurat teknike :

- Trupi prej alumini me rezistenc kunder korrozionit.
- Bullonat celik inoksi.
- Perciellsi kryesor dhe i degezimit lidhje te aluminit



COD.	Seksioni perciellesit	Seksioni i perciellesit	Bull	Kodi sipas
PGA 102X	6-	6-64	2 x M8	262016

4.F.V.Terminale vendosje te brendeshme 6/10kV 1x 35mm³ cope 9



Tensioni nominal

Seksioni

Gjatesia L mm

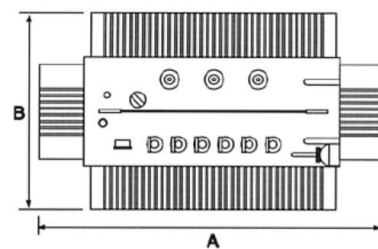
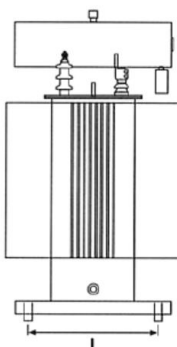
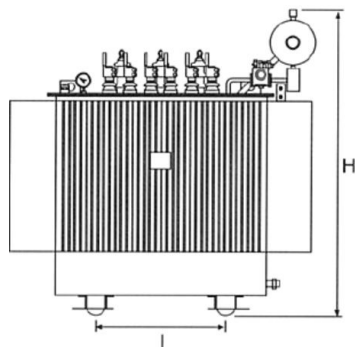
6/10kV

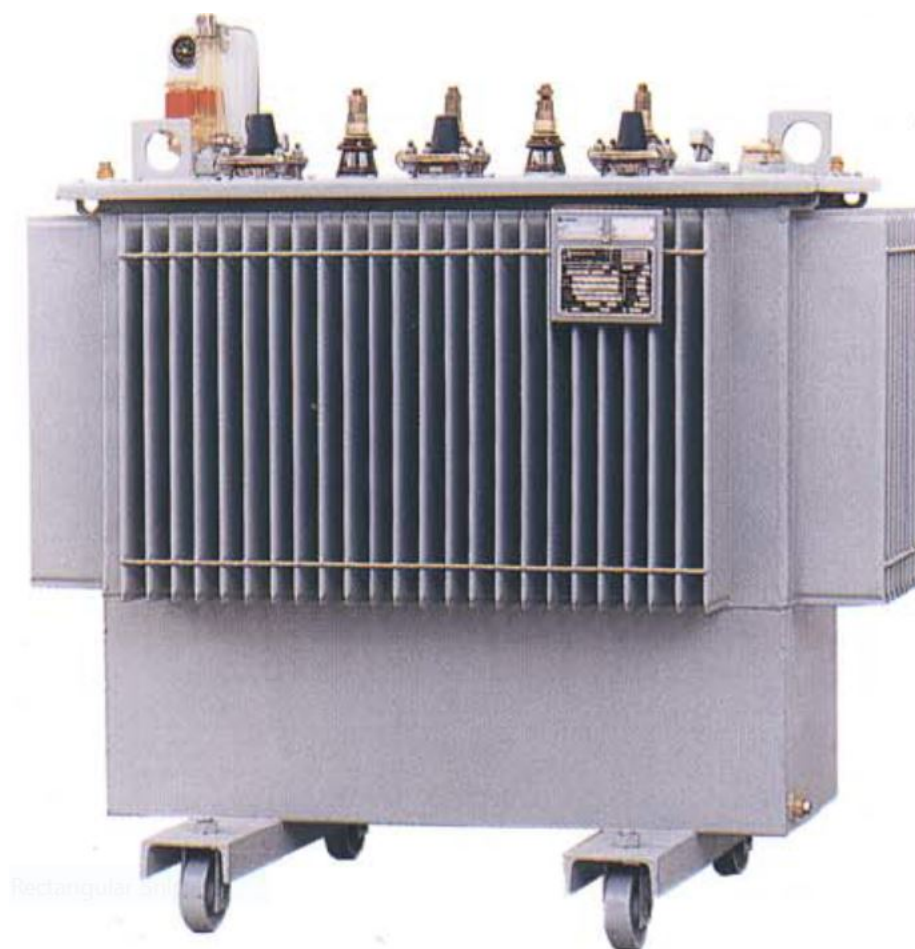
25-95

550

2.Vendosje e paisjeve elektromekanike.

1.V.Transformator fuqie 100kVA 6/10.0,4kV Fleta IE12,13,14 cope 1

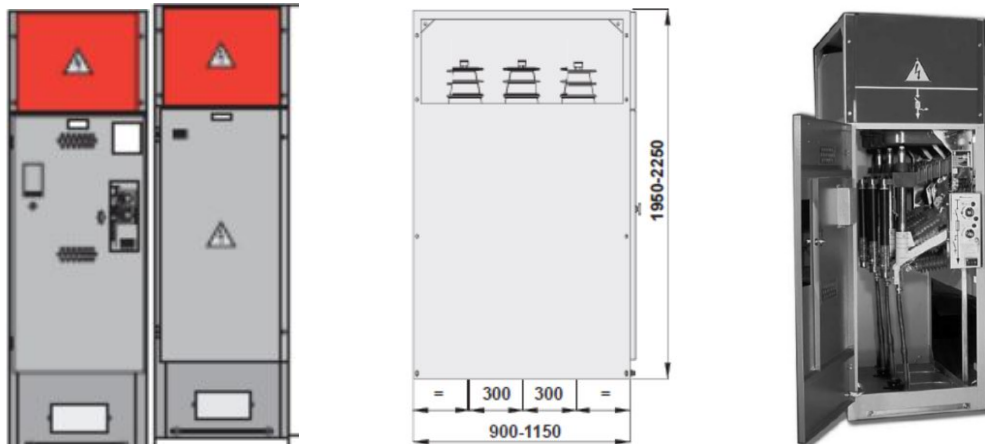




-Numuri i fazave	3
-Fuqia	100 kVA
-Tensioni paresore/ dytsore	6/10 kV/0.4kV
-Rryma paresore/dytesore	9.6/5.78 A/144A
-Tensioni lidhjes shkurter	4%
-Frekuenca	50Hz
-Instalimi	Brendeshem
-Lartesia	> 1000m
-Menyra ftohjes	ONAN

-Tipi transformatorit	Me vaj
-Me zgjerues vaji	
-Pesha vajit	110kG
-Pesha totale	500kG
-Dimensionet orjentuese	HxAxBxL 1300x1120x580X500
-Rregullimi tensionit pa ngarkese	+/- 2x2,5%
-Reziatenca lsh (%) ne °c	
-Grupi i lidhjes	D/Y011
-Humbjet e p.p.ngarkese	320 W
-Humbjet e lsh	1750 W
-Temperatura maksimale e peshtjelles	120 °c
-Temperatura maksimale e vajit	90 °c
-Temperatura e ambjentit	40°c
-Tipi i bojes	
Aksesoret :	
-Rele Buchholz	
-Thithes i lageshtires se ajrit	
-Valvul presioni	
-Termometer	
-Tregues vaji	
-Sistem levizes	
-Mbulese mbrojtese.	

2.2.Kuader TM, KTM-1 dhe KTM-2 Fleta-09,12,13,14



Panele TM 6/10/20 kV

-Tensioni nominal 24kv

-Qendrushmeria kundrejt tensionit me frekuence industiale 50/60Hz per 1 minut :

- | | |
|---|-------|
| a) Ndermjet fazeve dhe tokes | 50kV |
| b) Ndermjet hasires se hapjes se thikes | 60 kV |

-Qendrushmeria kundrejt impulsit atmosferik :

- | | |
|---|-------|
| a) Ndermjet fazeve dhe tokes | 125kV |
| b) Ndermjet hasires se hapjes se thikes | 140kV |

-Rryma nominale 400 A

- Rryma nominale 400 A

-Fuqia ckycese per ngarkese aktive

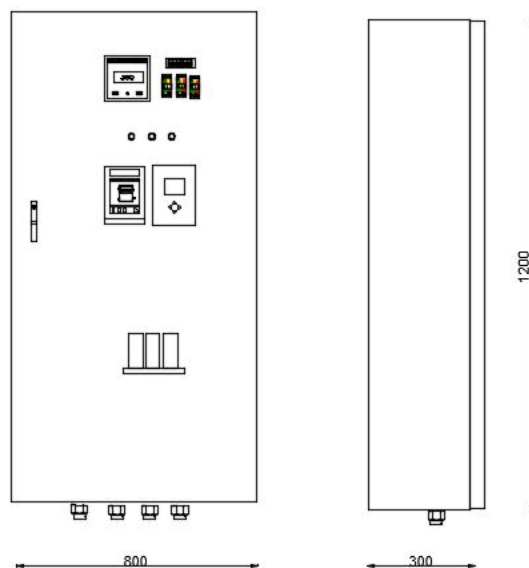
per cos 0,7 400A

-Fuqia ckycese per transformator ne boshllek 25kA

-Fuqia ckycese e linjave pa ngarkese 25kA

-Fuqia ckycese e lidhjes shkurter me token		200A
-Fuqia ckycese e lidhjes shkurter me token per linjat ne boshllek		50A
-Rryma per kohe te shkurter	1 sek	12,5-25kA
-Rryma per kohe te shkurter	2-3 sek	12,5-16kA
-Fuqia e stabilizimit		31,5-62,5kA

2.3.Panel hyrje transformatori 100kVA+leshim motori me ndryshues frekuence te el/pompave 1x55kW + bateri kondestori 1x11kVAr+3 dalje me automat 16,25,63 per nevojat e stacionit.Fleta IE-09,12,13,14 cope 1



Konstruksioni :

Perbehet nga nje dollap metalik me dimensione orjentuesa 1200x1000x300 I ndertuar nga llamarine celiku trashesi 1,5mm,lyer me boje rezistente kundrejt agjenteve atmosfertike.

-Shkalla e mbrojtjes.IP54.

1.Karakteristikat elektrike :

Skema elektrike jepet ne vizatimin IE-05 dhe permban :

Paisjet mbrojtese,komanduese,sinjalizuese :

-Hyrje transformatori 100kVA me automat 200/160A/4polar+tre transformator rryme 150/5 mates energjie, ,bateri kondesatori 13kVAr.

-Dalje me ndryshues frekuence 55kW per leshimin e el/pompes zhytese 45kW si dhe dalje reserve per nevojat vetjake me celesa automat 16,32,63

-Fuqia orjentuese 55kW

-Tensioni 380V,50HZ.

-Paisje per mbrojtjen e motorit nga ulja e nivelit te ujit ne pus.

-Sonda nivell me kabell 3x2,5 me gjatesi 25m

-Rele universale per mbrojtje nga Umax,Umin,Asimetria dhe ndryshimi i fazeve.

Mates universal rryme,tensioni frekuence.....etj

-Llampe sinjalizimi per prezence tensioni (Kucqe),kur motori eshte ne pune(jeshile) dhe kur ckycet nga releja termike (verdhe)

-Instalimet duhet te shoqerohen me marketimet perkatese.

-Perciellsat e fuqise te jene bakri me seksion $> 16\text{mm}^2$ ndersa te komandimit me seksion $> 1\text{mm}^2$.

-Paneli duhet te jete I paisur me rakorderi pvc per hyrjen dhe daljen e kobllit te hyrjes nga transformatori 100kVA dhe furnizimin e el/pompes zhytese 45kW.

-Brenda kuadrit duhet te vendoset nje zbarre tokezimi 40x5 qe sherben si nyje e tokezimit te stacionit dhe pjeset percuese te panelit te tokezohen sipas kushteve teknik

Paisjet perberse te panelit duhet te zgjidhen sipas kerkesave te skemes elektrike ne projektin elektrik.

2.Kuadri duhet te shoqerohet me skemen elektrike te funksionimit dhe me manualin e perdorimit.

2.4.El/pompave zhytese Q=8L/sek H=380m cope 2 Stacioni pompave Mengel

Technical data

BG8A17 + 660

Projector:

M

K

Date: 10.11.2015

3/a

OPERATING DATA

Q :	Capacity	8 l/s
H :	Total head	380 m
n :	Speed	2 Poles

Pump data

Capacity:	8 l/s
Total manometric head:	380 m
Efficiency:	69 %
Absorbed power:	40,4 kW
Max absorbed power:	43,5 kW
NPSH:	4,24 m
Poles:	2

Motor data

Rated power:	45 kW
Nominal speed:	2876 rpm
Voltage:	400 V
Rated current:	81 A
Frequency:	50 Hz

Overall Dimensions (mm)

Weight 505,62 lb

D	3" Gas	LM	56%
DM	5 1/4"	LP	64%
DP	7"	LT	121
DF	7"		

Operating conditions

Max sand content:	30 g/m³
Max fluid temperature:	30°C
Minimum speed around the motor:	0,5 m/s
Max starts per hour:	15
Allowable changes in voltage:	+6% / -10% / Vn

Pump materials

Suction casing	Cast iron
Valve body	Cast iron
Pump bowls	Cast iron
Impellers	Cast iron
Alarms	ADI 420

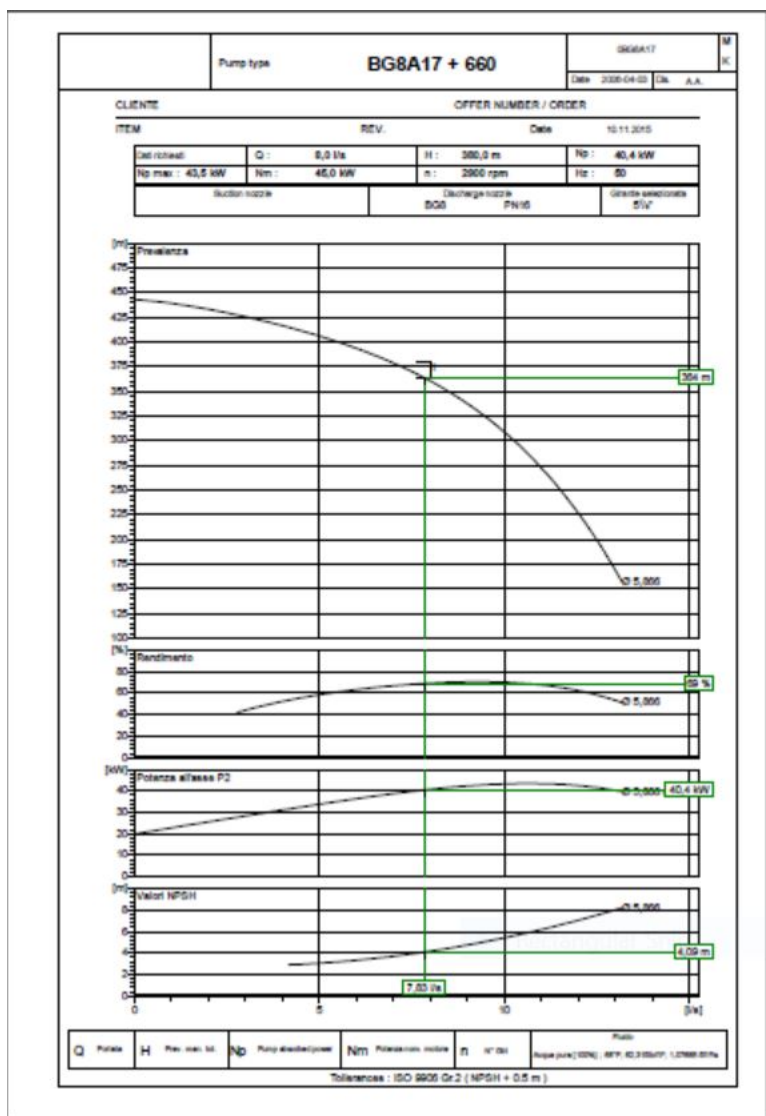
Motor materials

Motor ends	Cast iron
Motor/stator casing	Stainless steel
Motor shaft	Stainless steel
Motor thrust bearing	Self-aligning
Motor seal	Lip seal (P-85)
Winding	PVC
Thermal protection	-

Discharge nozzle

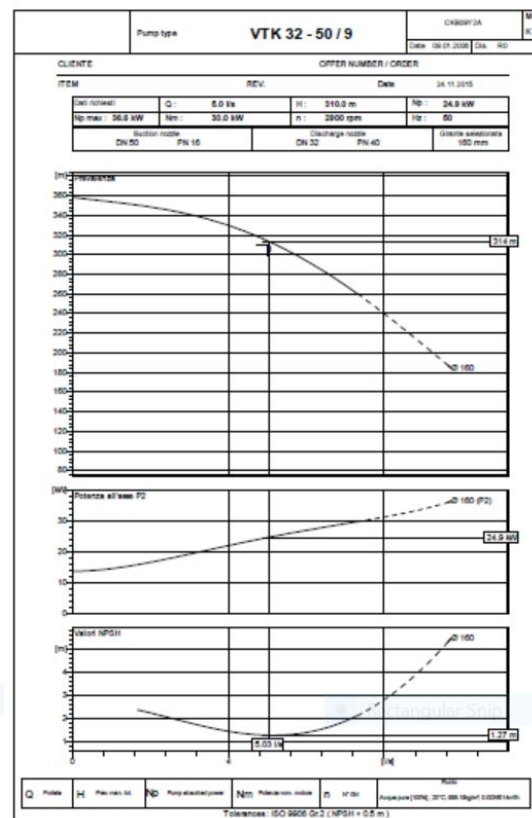
Pump Pump Pump	DOL		Y/D	
	A	B	C	
808... + 6"	194	194	200	
808... + 8"	194	198	204	

Rectangular Snip



Elektropompe sipërfaqësore vertikale Q=5Lsek H=310 m cope 2 Stacioni

Technical data		VTK 32 - 50 / 9		Project:	M																																																																																																																																																																																				
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power</td> <td>30 kW</td> <td>Variable motor</td> <td>2000 rpm</td> </tr> <tr> <td>Pressure at suction</td> <td>0.0005 MPa</td> <td>1st test</td> <td>1.3 %</td> <td>Interconnection</td> <td>50 A</td> </tr> <tr> <td>Kinematic viscosity</td> <td>0.0008 mPa·s</td> <td>Maximum pressure at suction</td> <td>35.0 MPa</td> <td>Unexcited construction</td> <td>50 °C</td> </tr> <tr> <td>Design capacity</td> <td>0.00</td> <td>Maximum pressure at 1st</td> <td>35.0 MPa</td> <td>Temperature rise</td> <td>0</td> </tr> <tr> <td>Design head</td> <td>0 m</td> <td>Number of stages</td> <td>9</td> <td>Excavation</td> <td>-</td> </tr> <tr> <td>Pressure protection</td> <td>210 m</td> <td>Type of stage</td> <td>Classical</td> <td>Leakage motor</td> <td>50 A</td> </tr> <tr> <td>Pressure at suction</td> <td>0.0005 MPa</td> <td>Minimum</td> <td>180.0 rpm</td> <td>Interconnection</td> <td>50 °C</td> </tr> <tr> <td>Discharge pressure</td> <td>21.1 MPa</td> <td>Maximum</td> <td>180.0 rpm</td> 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construction	200 L	Excavation agent Type	-	Design head	210.0 m	Leakage	50 mm	Excavation agent Press %	-	1st test	2000 rpm	Number of poles	2	Excavation agent Type / %	-	Efficiency	62.1 %	Interconnection	400 V	Volume per s.t.s.	-	Power at base	24.9 kW	Phase	3~	Temperature at suction (°C)	20 °C	Max. start power	38.0 kW	Frequency	50	Specific gravity	1.000	Suggested motor power	30 kW	Variable motor	2000 rpm	Pressure at suction	0.0005 MPa	1st test	1.3 %	Interconnection	50 A	Kinematic viscosity	0.0008 mPa·s	Maximum pressure at suction	35.0 MPa	Unexcited construction	50 °C	Design capacity	0.00	Maximum pressure at 1st	35.0 MPa	Temperature rise	0	Design head	0 m	Number of stages	9	Excavation	-	Pressure protection	210 m	Type of stage	Classical	Leakage motor	50 A	Pressure at suction	0.0005 MPa	Minimum	180.0 rpm	Interconnection	50 °C	Discharge pressure	21.1 MPa	Maximum	180.0 rpm	Interconnection	50 °C	1st test dependent on 1st test	-	Minimum	180.0 rpm	Interconnection	50 °C	Rated voltage	-	1st 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Temperature at suction (°C)	20 °C	Max. start power	38.0 kW	Frequency	50																																																																																																																																																																																				
Specific gravity	1.000	Suggested motor power	30 kW	Variable motor	2000 rpm																																																																																																																																																																																				
Pressure at suction	0.0005 MPa	1st test	1.3 %	Interconnection	50 A																																																																																																																																																																																				
Kinematic viscosity	0.0008 mPa·s	Maximum pressure at suction	35.0 MPa	Unexcited construction	50 °C																																																																																																																																																																																				
Design capacity	0.00	Maximum pressure at 1st	35.0 MPa	Temperature rise	0																																																																																																																																																																																				
Design head	0 m	Number of stages	9	Excavation	-																																																																																																																																																																																				
Pressure protection	210 m	Type of stage	Classical	Leakage motor	50 A																																																																																																																																																																																				
Pressure at suction	0.0005 MPa	Minimum	180.0 rpm	Interconnection	50 °C																																																																																																																																																																																				
Discharge pressure	21.1 MPa	Maximum	180.0 rpm	Interconnection	50 °C																																																																																																																																																																																				
1st test dependent on 1st test	-	Minimum	180.0 rpm	Interconnection	50 °C																																																																																																																																																																																				
Rated voltage	-	1st test	180.0 rpm	Interconnection	50 °C																																																																																																																																																																																				
Rated frequency	1000 Hz	1st test	180.0 rpm	Interconnection	50 °C																																																																																																																																																																																				
Ambient temperature	1000 m	1st test	180.0 rpm	Interconnection	50 °C																																																																																																																																																																																				
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- Uje i pijshem.
- Permbajtja e reres 50 mg/Liter
- Temperatura 15 grade celcius.

2.Tipi i pusit:

- Puse i hapur me sonde.
- Thellesia ? m
- Diametri i brendeshem i ku do te instalohet pompa 350 mm.

3.Qellimi i perdorimit.

- Furnizim i rezervuarit.

4. Te dhena per elektropompat

4.1.Hidroteknike :

Stacioni Mengel	Stacioni Samurr	Stacioni Byshek
Tipi zhytese cope 2	Siperfaqesore vertikale cope 2+2	
-Prurja Q=8 L/sek .	Q=5Lsek	Q=10Lsek
-Lartesia H=380 m	H=310m	H=180m
-Thellesia e zhytjes 24 m		

4.2.Sisemi i furnizimit me energji elektrike :

- 3x380V+N,50Hz
- Kufijt e ndryshimit te tensionit -10%+6%.

5.Menyrja e komandimit :

- Manual dhe automatik

6.Menyrja e leshimit:

E bute me ndryshues frekuence (Frekuence driver) me tension 380V,50Hz

7.Te dhena te tjera te pompes:

- Fuksioni per ngritje uji nga pusi 14''

- Permbajtja e reres ne uje 50 mg/liter
- Numuri i rrotullimeve 3000 rrot/min.
- Pesha specifike e ujit $\gamma=1\text{gr/cm}^3$
- Rrota e punes ,Gize.
- Trupi pompes Gize.
- Aksi i pompes celik inoks tipi (AISI 420)
- Valvola e moskthimit ,Gize.
- Grila e thithjes,celik inoks (AISI 304)
- Buloneria ,celik inoks (AISI 304)
- Drejtimi rrotullimit antiorar (Kur shikojme nga dalja e dergimit)
- Rendimenti > 68%.

8.Te dhenat e elektromotorit :

- Fuqia 105% e fuqise se pompes.
- Tensioni i punes 380 Trekendesh.
- Numuri i poleve 2
- Drejtimi i rrotullimit orar dhe antiorar.
- Numuri i fazeve 3.
- Numuri i daljeve 6
- Lloji kabllit ,gome kundra ujit .
- Gjatesia 25m e panderprere ose i xhuntuar ne fabrike.
- Peshtjella bakri e veshur me material termoplastik me veti te larta izoluese
- Karkasa e statorit celik inoks.
- Mbeshtetset e karkases se statorit Gize.
- Rrotri ne forme kafazi i ekuilibruar dinamikisht.
- Kuzhinetat me ftohje me uje.

-Aksi celik inoks.

-Temperatura minimale e magazinimit -10 grade celcius.

9.Kushtet e perdorimit te elektropompes :

-Temperatura maksimale e ujit 25 grade celcius.

-Permbajtja maksimale e reres 50 mg/liter.

-Numuri I leshime te njepasnjeshme 10 per/ore.

-Ndryshimi i tensionit ne morseterin e motorit -10%+6%

-Dimensioni per pus 14".

10.Manuali i perdorimit i elektropompes.

11.Amballazhimi ne arka druri me ku te shenohen te dhenat teknike te pompave.

Kablo te tensionit ulet 0.4kV.



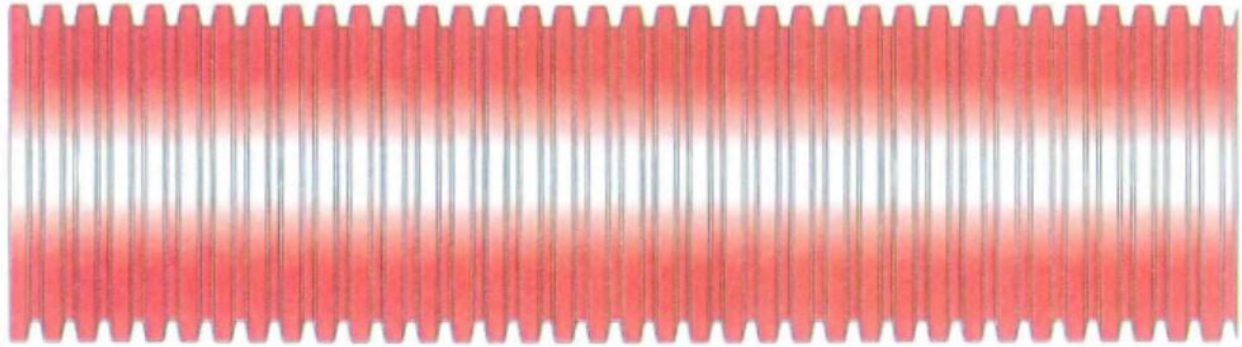
Tipi FG7OR-0./1kV

-Materiali i perciellsit	baker
-Natyra e perciellsit	fleksibel
-Materiali izolues	Gome EPR
-Forma e perciellesit	Rrethor
-Tensioni nominal Uo/U	0,6/1kV
-Veshja e jashteme	PVC
-Numuri i dejeve	1- 4
-Seksioni	1,5,2,5,4,25,50 mm2

2.5.Kabello 0.6kV TU 4 polar

Formazione n° x mm ²	Ø indicativo conduttore mm	Spessore medio isolante mm	Spessore medio guaina mm	Ø max esterno mm	Resistenza elettrica max a 20°C Ω / km	Peso indicativo cavo kg / km	Portata di corrente (A)					
							in aria a 30° C	in tubo in aria a 30° C	interrato a 20° C		tubo interrato a 20° C	
									K=1	K=1,5	K=1	K=1,5
4 x 1,5	1,5	0,7	1,8	13,4	13,3	205	23	19,5	29	25	20	19
4 x 2,5	2,0	0,7	1,8	14,6	7,98	260	32	26	37	33	26	25
4 x 4	2,5	0,7	1,8	16,0	4,96	330	42	35	48	42	34	33
4 x 6	3,05	0,7	1,8	17,5	3,30	440	54	44	60	52	43	41
4 x 10	4,0	0,7	1,8	19,8	1,91	640	75	60	79	70	60	56
4 x 16	5,0	0,7	1,8	22,4	1,21	900	100	80	103	91	78	74
4 x 25	5,9	0,9	1,8	26,8	0,78	1300	127	105	133	117	104	97
3x35+25	7,3/5,9	0,9/0,9	1,8	29,2	0,554/0,780	1650	158	128	159	140	125	117
3x50+25	8,7/5,9	1,0/0,9	1,8	32,4	0,386/0,780	2200	192	154	187	164	151	140
3x70+35	10,5/7,3	1,1/1,0	1,9	37,0	0,272/0,554	3000	246	194	229	201	190	175
3x95+50	12,0/8,7	1,1/1,0	2,1	42,0	0,206/0,386	3900	298	233	274	241	231	211
3x120+70	13,7/10,5	1,2/1,1	2,2	46,9	0,161/0,272	4700	346	268	312	274	265	242
3x150+95	16,5/12,0	1,4/1,1	2,4	52,5	0,129/0,206	6300	399	300	348	306	300	272

2.6.Tub PE per vendosje kablii



-Materjali Poletilen me densitet te larte

-Ngjyra e kuqe

- Strukturat,tubi duhet te jete i ndertuar me dy shtresa me qendrushmeri te larte mekanike si dhe elementeve kimike .Pjesa e jashteme duhet te jete e brinjezuar per rritjen e fortesis se tubit ndersa pjesa e brendeshme e lemuar qe te lehtesojte levizjen e perciellesave Brenda tubit.

- Perdorim per mbrojtjen e kablllove elektrik te tensionit ulet dhe te mesem si dhe per kabllot e telefonise.

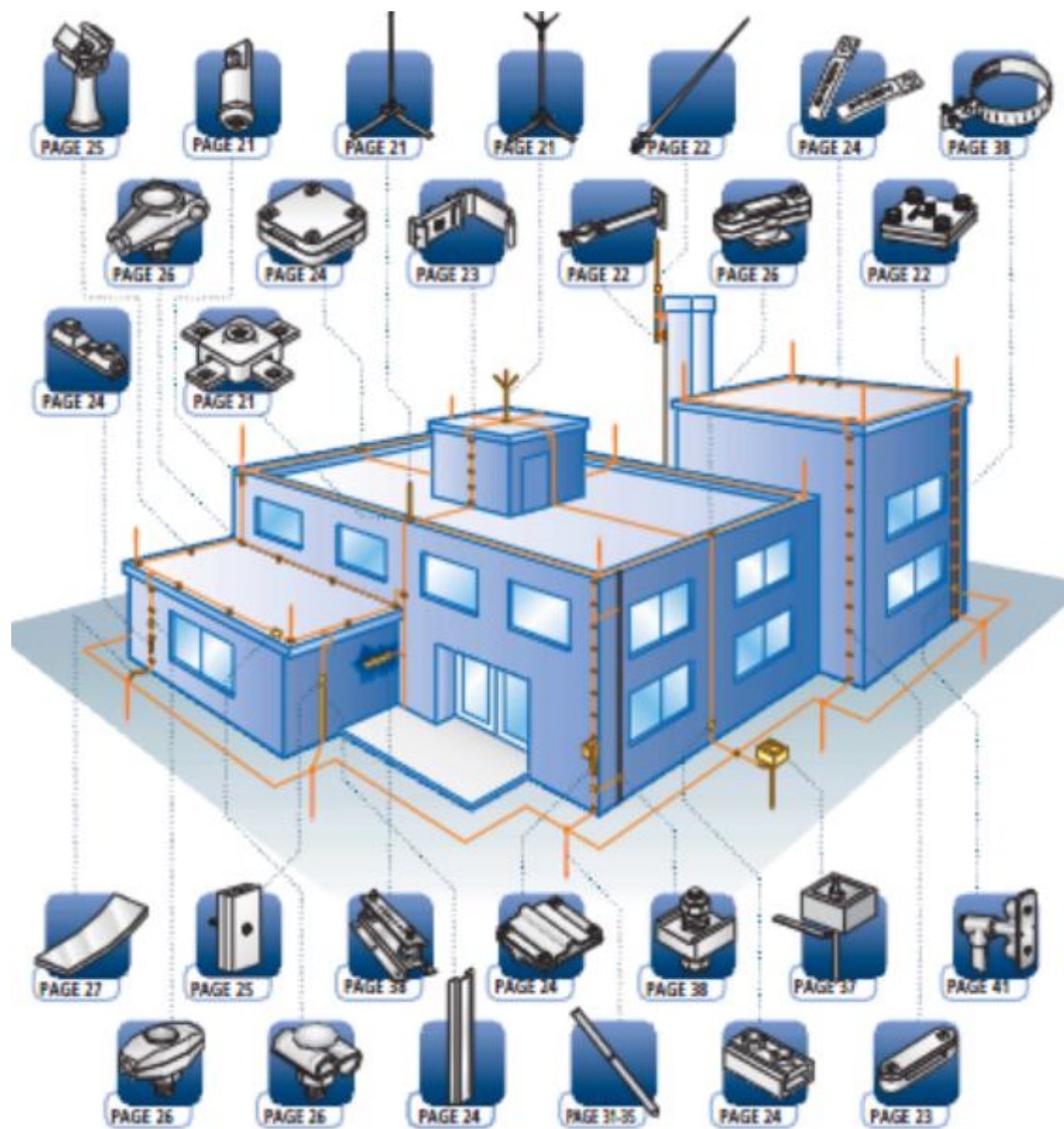
Ne tabelen poshte jepen diametric jashtem dhe i brendeshem i tubove :

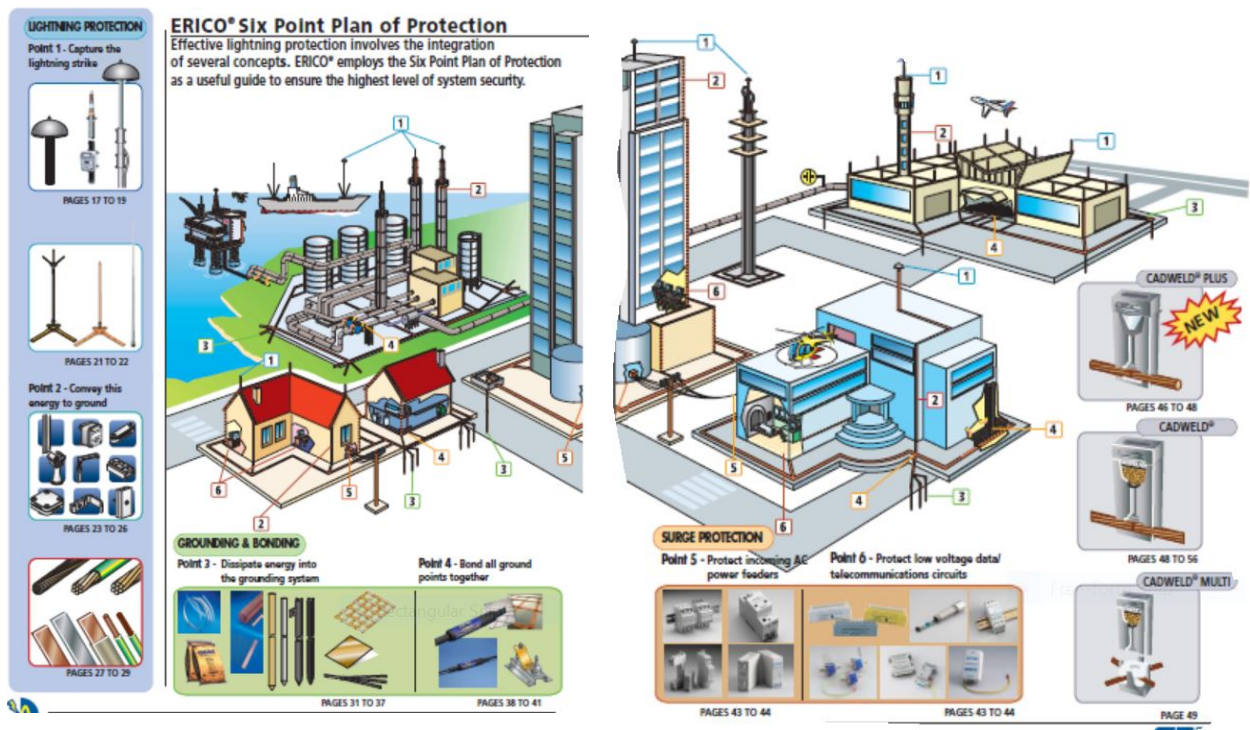
D/d mm	20/16	25/21	30/25	40/31	50/39	63/50	75/63	90/76	110/92
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Tubat duhet te plotesojne normat CEI EN 50086-2-4

2.7.Sistemi mbrojtjes kundra rrufeve dhe i tokezimit.

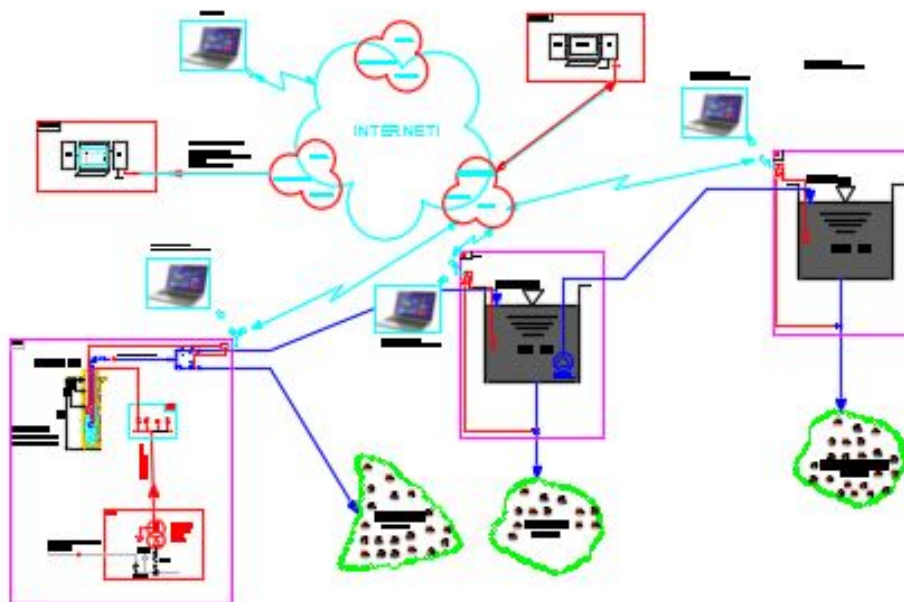
Perbehet nga percielles bakri 1x35,elektroda tokezimi celiku me gjatesi 1,5 m dhe trashesi 5mm si dhe shirit celik izinguar ne te nxehte 30x3mm dhe nha materjale ndihmese qe jane morseta dhe bulloneri te ndryshme te gjitha keto te fundit te izinguar ne te nxehte.me poshte jepet nje ide per realizimin e nje sistemi te mbrojtjes kundra rrufeve dhe tokezimit ne te jane treguar te gjith elementet qe duhet per te realizuar nje sistem te tille.





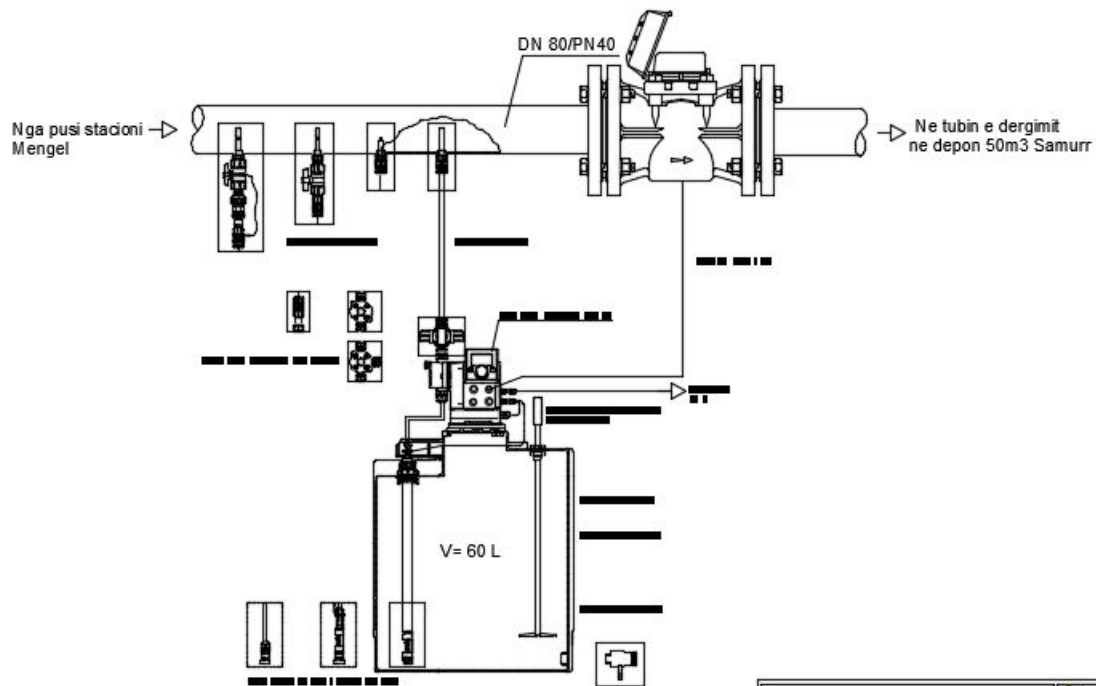
Sistemi matjes se prurjes se ujit dhe energjise elektrike.

Ky system duhet ti bashkengjitet ssistemit ekzistues qe ka ujesjellesi perbehet nga program SCADA dhe paisje elektronike te programueshme dhe memorje te lexueshme.



Ky sistem funksionon duke patur sherbin e internetit ujesjellesi ka nje kod te hyrjes dhe lexon te gjithë aparaturat e matjes se sasise ujit dhe matjen e enegjise ne vendet ku jane parashikuar ne projekt.specialisti nga zyra qendrore merr informacionin ne menyre tabelare ose grafike dhe e perpunon sipas kerkesave.

Sistemi klorit.



Perbehet nga nje el/pompe klori me te dhena $Q=0.0025L/ore-5litra\ ore$ dhe presion nga 40,20 bar ne vartesi te presionit ku do te injektoj klor ka nje fuci 60 litra klor te lengwet me 14% tregetohet ne tregun e vendit dhe nje sistem tunash dhe rakorderish per lidhjen e pompes se klorit me rezervuarin e klorit dhe linjen e dergimit ne tubacionin kryesor.